Fig. 1

A

1 2 3 4 5 6

Full-length Xenopus TPX2   αXenopus TPX2

IgG →

Xenopus TPX2 1-39 →

Xenopus Aurora-A →   αXenopus Aurora-A

	1	2	3	4	5	6
RanQ69L	−	+	−	+	−	+
Full-length Xenopus TPX2	−	−	+	+	−	−
Xenopus TPX2 1-39	−	−	−	−	+	+

B

1 2 3

GST TPX2 1-43 →
GST TPX2 15-43 →   αGST
GST →

Human Aurora-A →   αHuman Aurora-A

	1	2	3
GST	+	−	−
GST TPX2 1-43	−	+	−
GST TPX2 15-43	−	−	+

C

1 2 3 4

Full-length TPX2 →
Human Aurora-A →
GST TPX2 1-43 →
GST TPX2 15-43 →

Histone H3 →

^{32}P Incorporation   Coomassie

Human Aurora-A	+	+	+	+
Full-length TPX2	−	+	−	−
GST TPX2 1-43	−	−	+	−
GST TPX2 15-43	−	−	−	+
Histone H3	+	+	+	+

D

1 2 3 4 5 6 7 8

Total Aurora-A

phospho-Thr288 Aurora-A

	1	2	3	4	5	6	7	8
PP1	−	+	−	+	−	+	−	+
Full-length TPX2	−	−	+	+	−	−	−	−
GST TPX2 1-43	−	−	−	−	+	+	−	−
GST TPX2 15-43	−	−	−	−	−	−	+	+

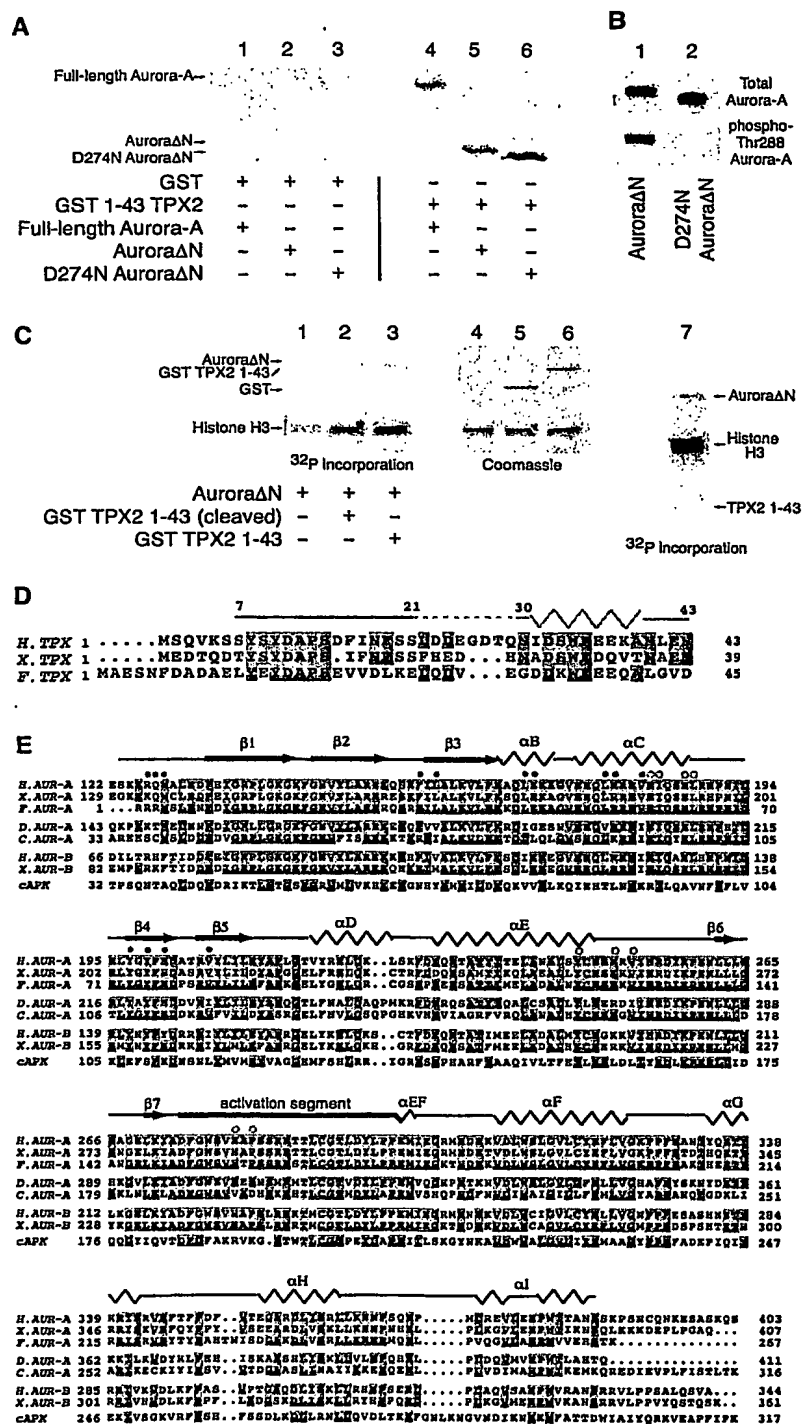Fig. 2
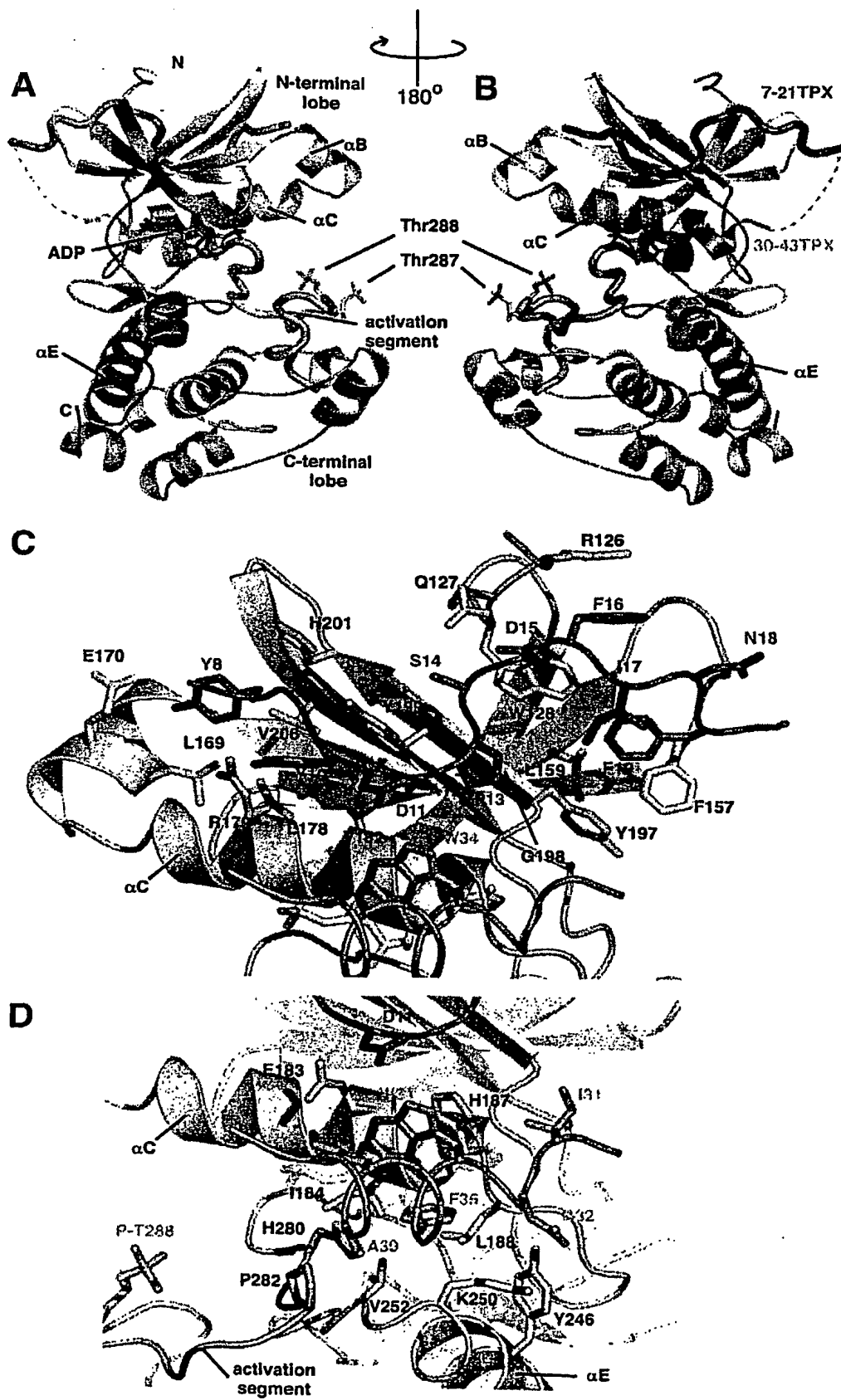
Fig. 3
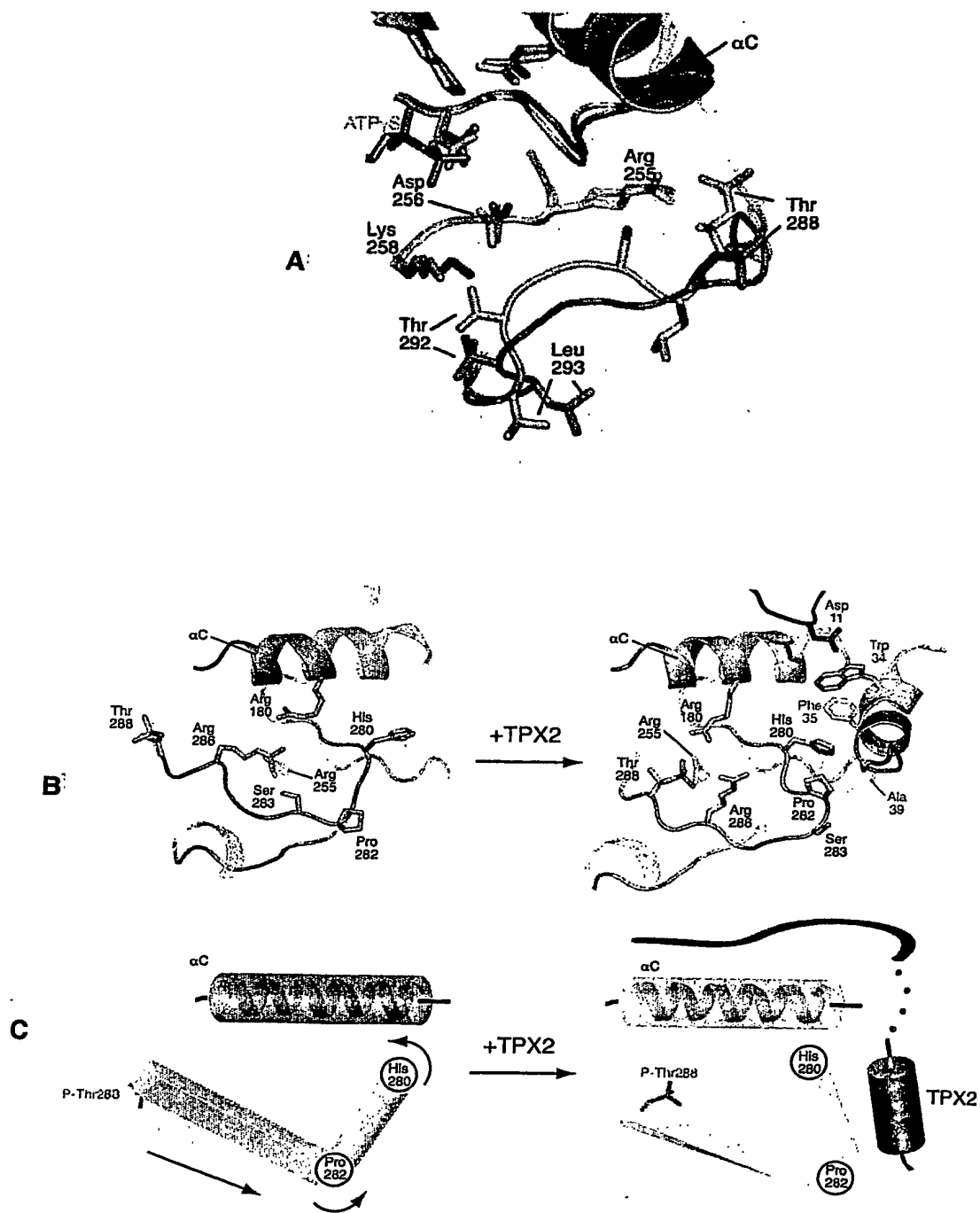
Fig. 4

Fig. 5

Table A

```
ATOM      1  CB   GLN A 127    267.519 -61.189  87.734  1.00 66.58      A   C
ATOM      2  CG   GLN A 127    266.971 -61.391  86.330  1.00 76.29      A   C
ATOM      3  CD   GLN A 127    266.372 -60.121  85.741  1.00 79.34      A   C
ATOM      4  OE1  GLN A 127    265.589 -60.183  84.781  1.00 82.34      A   O
ATOM      5  NE2  GLN A 127    266.735 -58.962  86.307  1.00 82.40      A   N
ATOM      6  C    GLN A 127    269.192 -59.883  89.051  1.00 63.35      A   C
ATOM      7  O    GLN A 127    269.877 -58.853  89.024  1.00 70.04      A   O
ATOM      8  N    GLN A 127    269.910 -61.949  87.808  1.00 58.04      A   N
ATOM      9  CA   GLN A 127    269.002 -60.755  87.810  1.00 67.74      A   C
ATOM     10  N    TRP A 128    268.566 -60.307  90.137  1.00 61.21      A   N
ATOM     11  CA   TRP A 128    268.621 -59.552  91.366  1.00 53.96      A   C
ATOM     12  CB   TRP A 128    267.315 -59.733  92.133  1.00 50.38      A   C
ATOM     13  CG   TRP A 128    266.140 -59.256  91.369  1.00 49.11      A   C
ATOM     14  CD2  TRP A 128    265.908 -57.928  90.897  1.00 50.34      A   C
ATOM     15  CE2  TRP A 128    264.697 -57.962  90.150  1.00 53.33      A   C
ATOM     16  CE3  TRP A 128    266.611 -56.713  91.017  1.00 53.44      A   C
ATOM     17  CD1  TRP A 128    265.096 -60.014  90.921  1.00 47.17      A   C
ATOM     18  NE1  TRP A 128    264.228 -59.249  90.191  1.00 49.20      A   N
ATOM     19  CZ2  TRP A 128    264.160 -56.816  89.514  1.00 56.77      A   C
ATOM     20  CZ3  TRP A 128    266.094 -55.571  90.392  1.00 60.23      A   C
ATOM     21  CH2  TRP A 128    264.869 -55.633  89.639  1.00 61.57      A   C
ATOM     22  C    TRP A 128    269.787 -59.909  92.262  1.00 54.43      A   C
ATOM     23  O    TRP A 128    270.317 -61.026  92.231  1.00 54.76      A   O
ATOM     24  N    ALA A 129    270.184 -58.955  93.085  1.00 55.48      A   N
ATOM     25  CA   ALA A 129    271.283 -59.206  94.006  1.00 60.01      A   C
ATOM     26  CB   ALA A 129    272.608 -58.800  93.341  1.00 66.60      A   C
ATOM     27  C    ALA A 129    271.010 -58.371  95.258  1.00 56.86      A   C
ATOM     28  O    ALA A 129    270.365 -57.326  95.173  1.00 59.08      A   O
ATOM     29  N    LEU A 130    271.517 -58.821  96.401  1.00 51.68      A   N
ATOM     30  CA   LEU A 130    271.314 -58.126  97.665  1.00 53.06      A   C
ATOM     31  CB   LEU A 130    272.108 -58.770  98.787  1.00 43.18      A   C
ATOM     32  CG   LEU A 130    272.080 -58.110 100.164  1.00 36.68      A   C
ATOM     33  CD1  LEU A 130    270.621 -57.934 100.570  1.00 47.13      A   C
ATOM     34  CD2  LEU A 130    272.839 -58.975 101.186  1.00 38.64      A   C
ATOM     35  C    LEU A 130    271.750 -56.702  97.591  1.00 55.17      A   C
ATOM     36  O    LEU A 130    271.223 -55.834  98.305  1.00 61.19      A   O
ATOM     37  N    GLU A 131    272.686 -56.469  96.690  1.00 58.94      A   N
ATOM     38  CA   GLU A 131    273.276 -55.172  96.539  1.00 57.04      A   C
ATOM     39  CB   GLU A 131    274.689 -55.400  96.030  1.00 63.45      A   C
ATOM     40  CG   GLU A 131    275.441 -56.450  96.938  1.00 73.38      A   C
ATOM     41  CD   GLU A 131    275.249 -57.909  96.486  1.00 79.54      A   C
ATOM     42  OE1  GLU A 131    274.529 -58.142  95.477  1.00 80.97      A   O
ATOM     43  OE2  GLU A 131    275.838 -58.820  97.135  1.00 88.53      A   O
ATOM     44  C    GLU A 131    272.458 -54.235  95.682  1.00 55.07      A   C
ATOM     45  O    GLU A 131    272.851 -53.119  95.439  1.00 51.83      A   O
ATOM     46  N    ASP A 132    271.280 -54.704  95.299  1.00 53.60      A   N
ATOM     47  CA   ASP A 132    270.298 -53.994  94.487  1.00 58.59      A   C
ATOM     48  CB   ASP A 132    269.514 -54.987  93.656  1.00 69.09      A   C
ATOM     49  CG   ASP A 132    270.030 -55.141  92.284  1.00 68.36      A   C
ATOM     50  OD1  ASP A 132    269.776 -54.250  91.447  1.00 73.44      A   O
ATOM     51  OD2  ASP A 132    270.704 -56.159  92.048  1.00 76.16      A   O
ATOM     52  C    ASP A 132    269.267 -53.412  95.449  1.00 59.74      A   C
ATOM     53  O    ASP A 132    268.472 -52.547  95.093  1.00 56.43      A   O
ATOM     54  N    PHE A 133    269.239 -53.925  96.666  1.00 62.15      A   N
ATOM     55  CA   PHE A 133    268.239 -53.448  97.598  1.00 62.91      A   C
ATOM     56  CB   PHE A 133    267.324 -54.622  97.974  1.00 59.55      A   C
ATOM     57  CG   PHE A 133    266.737 -55.337  96.775  1.00 61.26      A   C
ATOM     58  CD1  PHE A 133    267.467 -56.312  96.095  1.00 60.00      A   C
ATOM     59  CD2  PHE A 133    265.442 -55.059  96.346  1.00 60.03      A   C
ATOM     60  CE1  PHE A 133    266.910 -56.996  94.991  1.00 65.06      A   C
ATOM     61  CE2  PHE A 133    264.883 -55.719  95.264  1.00 60.82      A   C
ATOM     62  CZ   PHE A 133    265.607 -56.697  94.585  1.00 61.32      A   C
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ATOM	63	C	PHE	A	133	268.740	-52.733	98.847	1.00	61.07	A	C
ATOM	64	O	PHE	A	133	269.866	-52.972	99.318	1.00	66.24	A	O
ATOM	65	N	GLU	A	134	267.878	-51.829	99.340	1.00	59.55	A	N
ATOM	66	CA	GLU	A	134	268.062	-51.035	100.573	1.00	58.90	A	C
ATOM	67	CB	GLU	A	134	267.589	-49.593	100.353	1.00	54.77	A	C
ATOM	68	CG	GLU	A	134	268.478	-48.772	99.488	1.00	63.45	A	C
ATOM	69	CD	GLU	A	134	268.205	-47.282	99.556	1.00	61.84	A	C
ATOM	70	OE1	GLU	A	134	268.808	-46.576	100.384	1.00	75.06	A	O
ATOM	71	OE2	GLU	A	134	267.388	-46.803	98.768	1.00	73.27	A	O
ATOM	72	C	GLU	A	134	267.139	-51.698	101.627	1.00	53.85	A	C
ATOM	73	O	GLU	A	134	265.909	-51.607	101.526	1.00	60.03	A	O
ATOM	74	N	ILE	A	135	267.713	-52.362	102.621	1.00	52.32	A	N
ATOM	75	CA	ILE	A	135	266.917	-53.042	103.625	1.00	50.89	A	C
ATOM	76	CB	ILE	A	135	267.750	-54.131	104.343	1.00	48.23	A	C
ATOM	77	CG2	ILE	A	135	266.828	-55.078	105.127	1.00	51.35	A	C
ATOM	78	CG1	ILE	A	135	268.552	-54.940	103.317	1.00	48.00	A	C
ATOM	79	CD1	ILE	A	135	267.731	-55.720	102.398	1.00	35.46	A	C
ATOM	80	C	ILE	A	135	266.298	-52.129	104.674	1.00	50.54	A	C
ATOM	81	O	ILE	A	135	266.973	-51.281	105.250	1.00	50.32	A	O
ATOM	82	N	GLY	A	136	265.004	-52.334	104.924	1.00	49.85	A	N
ATOM	83	CA	GLY	A	136	264.286	-51.534	105.903	1.00	44.78	A	C
ATOM	84	C	GLY	A	136	264.165	-52.255	107.228	1.00	44.85	A	C
ATOM	85	O	GLY	A	136	265.040	-53.071	107.574	1.00	45.10	A	O
ATOM	86	N	ARG	A	137	263.071	-51.996	107.940	1.00	40.54	A	N
ATOM	87	CA	ARG	A	137	262.891	-52.598	109.248	1.00	47.22	A	C
ATOM	88	CB	ARG	A	137	261.911	-51.766	110.065	1.00	46.15	A	C
ATOM	89	CG	ARG	A	137	260.481	-51.887	109.585	1.00	46.77	A	C
ATOM	90	CD	ARG	A	137	259.521	-51.284	110.589	1.00	47.76	A	C
ATOM	91	NE	ARG	A	137	258.174	-51.283	110.058	1.00	44.18	A	N
ATOM	92	CZ	ARG	A	137	257.364	-52.330	110.097	1.00	49.13	A	C
ATOM	93	NH1	ARG	A	137	257.779	-53.468	110.655	1.00	50.41	A	N
ATOM	94	NH2	ARG	A	137	256.144	-52.230	109.579	1.00	42.98	A	N
ATOM	95	C	ARG	A	137	262.358	-54.014	109.150	1.00	48.40	A	C
ATOM	96	O	ARG	A	137	261.734	-54.370	108.150	1.00	52.53	A	O
ATOM	97	N	PRO	A	138	262.589	-54.840	110.190	1.00	48.54	A	N
ATOM	98	CD	PRO	A	138	263.443	-54.581	111.363	1.00	46.06	A	C
ATOM	99	CA	PRO	A	138	262.108	-56.226	110.213	1.00	46.02	A	C
ATOM	100	CB	PRO	A	138	262.685	-56.765	111.524	1.00	49.55	A	C
ATOM	101	CG	PRO	A	138	263.905	-55.955	111.710	1.00	42.97	A	C
ATOM	102	C	PRO	A	138	260.561	-56.262	110.207	1.00	49.85	A	C
ATOM	103	O	PRO	A	138	259.920	-55.810	111.142	1.00	50.42	A	O
ATOM	104	N	LEU	A	139	259.980	-56.799	109.138	1.00	45.75	A	N
ATOM	105	CA	LEU	A	139	258.545	-56.896	109.005	1.00	39.58	A	C
ATOM	106	CB	LEU	A	139	258.181	-57.130	107.558	1.00	37.24	A	C
ATOM	107	CG	LEU	A	139	258.109	-55.885	106.664	1.00	42.68	A	C
ATOM	108	CD1	LEU	A	139	257.816	-56.315	105.170	1.00	32.13	A	C
ATOM	109	CD2	LEU	A	139	256.990	-54.961	107.170	1.00	43.77	A	C
ATOM	110	C	LEU	A	139	257.968	-58.002	109.880	1.00	40.81	A	C
ATOM	111	O	LEU	A	139	256.907	-57.861	110.480	1.00	45.92	A	O
ATOM	112	N	GLY	A	140	258.675	-59.111	109.970	1.00	45.15	A	N
ATOM	113	CA	GLY	A	140	258.198	-60.218	110.789	1.00	48.82	A	C
ATOM	114	C	GLY	A	140	259.222	-61.317	111.040	1.00	48.37	A	C
ATOM	115	O	GLY	A	140	260.326	-61.310	110.492	1.00	53.08	A	O
ATOM	116	N	LYS	A	141	258.842	-62.283	111.856	1.00	52.66	A	N
ATOM	117	CA	LYS	A	141	259.740	-63.376	112.192	1.00	56.79	A	C
ATOM	118	CB	LYS	A	141	259.961	-63.404	113.707	1.00	61.89	A	C
ATOM	119	CG	LYS	A	141	260.862	-64.513	114.210	1.00	68.25	A	C
ATOM	120	CD	LYS	A	141	260.894	-64.538	115.750	1.00	78.79	A	C
ATOM	121	CE	LYS	A	141	261.863	-65.624	116.242	1.00	83.42	A	C
ATOM	122	NZ	LYS	A	141	261.987	-65.651	117.745	1.00	90.84	A	N
ATOM	123	C	LYS	A	141	259.219	-64.728	111.704	1.00	57.82	A	C
ATOM	124	O	LYS	A	141	258.150	-65.199	112.084	1.00	57.17	A	O
ATOM	125	N	GLY	A	142	259.990	-65.342	110.823	1.00	63.79	A	N
ATOM	126	CA	GLY	A	142	259.627	-66.648	110.315	1.00	67.77	A	C
ATOM	127	C	GLY	A	142	260.381	-67.717	111.087	1.00	68.12	A	C
ATOM	128	O	GLY	A	142	260.756	-67.533	112.255	1.00	76.19	A	O
ATOM	129	N	LYS	A	143	260.638	-68.829	110.410	1.00	66.29	A	N
ATOM	130	CA	LYS	A	143	261.359	-69.941	111.016	1.00	62.91	A	C
ATOM	131	CB	LYS	A	143	260.576	-71.221	110.783	1.00	56.50	A	C
ATOM	132	CG	LYS	A	143	260.990	-72.331	111.694	1.00	59.59	A	C

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ATOM    133  CD   LYS A 143      259.804 -73.170 112.130  1.00 65.95      A    C
ATOM    134  CE   LYS A 143      260.182 -74.141 113.303  1.00 69.37      A    C
ATOM    135  NZ   LYS A 143      259.069 -75.109 113.596  1.00 70.95      A    N
ATOM    136  C    LYS A 143      262.773 -70.081 110.500  1.00 62.52      A    C
ATOM    137  O    LYS A 143      263.725 -70.302 111.243  1.00 61.60      A    O
ATOM    138  N    PHE A 144      262.909 -69.898 109.200  1.00 68.60      A    N
ATOM    139  CA   PHE A 144      264.215 -70.021 108.556  1.00 74.62      A    C
ATOM    140  CB   PHE A 144      264.109 -70.886 107.296  1.00 69.32      A    C
ATOM    141  CG   PHE A 144      263.583 -72.278 107.565  1.00 69.58      A    C
ATOM    142  CD1  PHE A 144      262.211 -72.526 107.690  1.00 66.23      A    C
ATOM    143  CD2  PHE A 144      264.460 -73.335 107.731  1.00 63.51      A    C
ATOM    144  CE1  PHE A 144      261.738 -73.816 107.978  1.00 73.24      A    C
ATOM    145  CE2  PHE A 144      263.985 -74.608 108.014  1.00 69.83      A    C
ATOM    146  CZ   PHE A 144      262.629 -74.850 108.138  1.00 66.31      A    C
ATOM    147  C    PHE A 144      264.768 -68.665 108.234  1.00 74.80      A    C
ATOM    148  O    PHE A 144      265.636 -68.496 107.395  1.00 82.71      A    O
ATOM    149  N    GLY A 145      264.248 -67.691 108.955  1.00 83.57      A    N
ATOM    150  CA   GLY A 145      264.676 -66.320 108.782  1.00 77.10      A    C
ATOM    151  C    GLY A 145      263.544 -65.296 108.827  1.00 75.14      A    C
ATOM    152  O    GLY A 145      262.338 -65.557 108.521  1.00 74.64      A    O
ATOM    153  N    ASN A 146      263.966 -64.097 109.195  1.00 67.46      A    N
ATOM    154  CA   ASN A 146      263.050 -62.976 109.318  1.00 65.84      A    C
ATOM    155  CB   ASN A 146      263.674 -61.895 110.208  1.00 68.52      A    C
ATOM    156  CG   ASN A 146      263.873 -62.369 111.664  1.00 74.23      A    C
ATOM    157  OD1  ASN A 146      264.045 -63.577 111.946  1.00 76.10      A    O
ATOM    158  ND2  ASN A 146      263.871 -61.415 112.588  1.00 74.93      A    N
ATOM    159  C    ASN A 146      262.727 -62.402 107.955  1.00 60.10      A    C
ATOM    160  O    ASN A 146      263.442 -62.661 106.979  1.00 60.40      A    O
ATOM    161  N    VAL A 147      261.651 -61.614 107.909  1.00 49.34      A    N
ATOM    162  CA   VAL A 147      261.208 -60.938 106.697  1.00 34.29      A    C
ATOM    163  CB   VAL A 147      259.691 -61.195 106.433  1.00 35.55      A    C
ATOM    164  CG1  VAL A 147      259.202 -60.303 105.293  1.00 22.76      A    C
ATOM    165  CG2  VAL A 147      259.444 -62.657 106.040  1.00 25.36      A    C
ATOM    166  C    VAL A 147      261.432 -59.427 106.905  1.00 36.01      A    C
ATOM    167  O    VAL A 147      261.071 -58.888 107.912  1.00 33.80      A    O
ATOM    168  N    TYR A 148      262.006 -58.743 105.931  1.00 38.73      A    N
ATOM    169  CA   TYR A 148      262.298 -57.313 106.040  1.00 38.16      A    C
ATOM    170  CB   TYR A 148      263.815 -57.053 105.947  1.00 44.86      A    C
ATOM    171  CG   TYR A 148      264.625 -57.783 106.981  1.00 51.34      A    C
ATOM    172  CD1  TYR A 148      264.946 -59.110 106.823  1.00 49.12      A    C
ATOM    173  CE1  TYR A 148      265.660 -59.799 107.804  1.00 57.49      A    C
ATOM    174  CD2  TYR A 148      265.035 -57.152 108.146  1.00 56.42      A    C
ATOM    175  CE2  TYR A 148      265.743 -57.839 109.136  1.00 62.05      A    C
ATOM    176  CZ   TYR A 148      266.051 -59.159 108.958  1.00 59.22      A    C
ATOM    177  OH   TYR A 148      266.740 -59.818 109.951  1.00 62.90      A    O
ATOM    178  C    TYR A 148      261.647 -56.485 104.972  1.00 40.31      A    C
ATOM    179  O    TYR A 148      261.240 -56.989 103.910  1.00 39.68      A    O
ATOM    180  N    LEU A 149      261.564 -55.187 105.254  1.00 37.70      A    N
ATOM    181  CA   LEU A 149      260.992 -54.236 104.287  1.00 36.17      A    C
ATOM    182  CB   LEU A 149      260.495 -52.976 105.019  1.00 38.73      A    C
ATOM    183  CG   LEU A 149      259.781 -51.920 104.186  1.00 39.39      A    C
ATOM    184  CD1  LEU A 149      258.437 -52.465 103.793  1.00 46.05      A    C
ATOM    185  CD2  LEU A 149      259.655 -50.660 104.957  1.00 40.68      A    C
ATOM    186  C    LEU A 149      262.212 -53.920 103.405  1.00 35.83      A    C
ATOM    187  O    LEU A 149      263.340 -54.217 103.822  1.00 37.60      A    O
ATOM    188  N    ALA A 150      262.029 -53.321 102.228  1.00 37.02      A    N
ATOM    189  CA   ALA A 150      263.171 -53.041 101.363  1.00 35.35      A    C
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ATOM    191  C    ALA A 150      262.746 -52.334 100.123  1.00 44.17      A    C
ATOM    192  O    ALA A 150      261.665 -52.604  99.566  1.00 41.00      A    O
ATOM    193  N    ARG A 151      263.619 -51.441  99.666  1.00 47.00      A    N
ATOM    194  CA   ARG A 151      263.319 -50.674  98.468  1.00 50.37      A    C
ATOM    195  CB   ARG A 151      263.377 -49.171  98.793  1.00 53.91      A    C
ATOM    196  CG   ARG A 151      262.912 -48.272  97.649  1.00 53.96      A    C
ATOM    197  CD   ARG A 151      262.884 -46.817  98.014  1.00 57.39      A    C
ATOM    198  NE   ARG A 151      264.145 -46.372  98.607  1.00 58.37      A    N
ATOM    199  CZ   ARG A 151      264.561 -45.110  98.572  1.00 58.07      A    C
ATOM    200  NH1  ARG A 151      263.814 -44.175  97.969  1.00 56.20      A    N
ATOM    201  NH2  ARG A 151      265.718 -44.793  99.131  1.00 55.48      A    N
ATOM    202  C    ARG A 151      264.311 -51.021  97.348  1.00 55.38      A    C
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ATOM	203	O	ARG	A	151	265.503	-51.247	97.625	1.00	60.78	A	O
ATOM	204	N	GLU	A	152	263.826	-51.059	96.105	1.00	54.28	A	N
ATOM	205	CA	GLU	A	152	264.664	-51.366	94.972	1.00	54.46	A	C
ATOM	206	CB	GLU	A	152	263.811	-51.817	93.823	1.00	60.23	A	C
ATOM	207	CG	GLU	A	152	264.520	-52.780	92.888	1.00	67.69	A	C
ATOM	208	CD	GLU	A	152	265.617	-52.120	92.087	1.00	75.21	A	C
ATOM	209	OE1	GLU	A	152	266.773	-52.020	92.593	1.00	78.70	A	O
ATOM	210	OE2	GLU	A	152	265.305	-51.689	90.951	1.00	76.28	A	O
ATOM	211	C	GLU	A	152	265.436	-50.117	94.598	1.00	54.18	A	C
ATOM	212	O	GLU	A	152	264.868	-49.045	94.388	1.00	55.50	A	O
ATOM	213	N	LYS	A	153	266.746	-50.275	94.489	1.00	55.96	A	N
ATOM	214	CA	LYS	A	153	267.583	-49.115	94.231	1.00	57.21	A	C
ATOM	215	CB	LYS	A	153	269.059	-49.471	94.257	1.00	56.21	A	C
ATOM	216	CG	LYS	A	153	269.661	-49.042	95.586	1.00	49.03	A	C
ATOM	217	CD	LYS	A	153	270.821	-49.929	95.975	1.00	56.59	A	C
ATOM	218	CE	LYS	A	153	271.022	-49.981	97.450	1.00	62.23	A	C
ATOM	219	NZ	LYS	A	153	272.289	-50.704	97.804	1.00	63.82	A	N
ATOM	220	C	LYS	A	153	267.300	-48.233	93.056	1.00	60.69	A	C
ATOM	221	O	LYS	A	153	267.418	-47.029	93.188	1.00	68.16	A	O
ATOM	222	N	GLN	A	154	266.890	-48.704	91.909	1.00	60.83	A	N
ATOM	223	CA	GLN	A	154	266.722	-47.630	90.954	1.00	60.63	A	C
ATOM	224	CB	GLN	A	154	267.313	-48.015	89.612	1.00	65.34	A	C
ATOM	225	CG	GLN	A	154	268.585	-48.908	89.762	1.00	73.31	A	C
ATOM	226	CD	GLN	A	154	268.842	-49.643	88.514	1.00	76.62	A	C
ATOM	227	OE1	GLN	A	154	268.751	-49.059	87.368	1.00	77.22	A	O
ATOM	228	NE2	GLN	A	154	269.150	-50.963	88.658	1.00	79.75	A	N
ATOM	229	C	GLN	A	154	265.288	-47.279	90.868	1.00	58.41	A	C
ATOM	230	O	GLN	A	154	264.929	-46.135	90.760	1.00	66.80	A	O
ATOM	231	N	SER	A	155	264.465	-48.297	91.026	1.00	63.11	A	N
ATOM	232	CA	SER	A	155	263.012	-48.182	90.986	1.00	57.08	A	C
ATOM	233	CB	SER	A	155	262.438	-49.593	90.891	1.00	57.59	A	C
ATOM	234	OG	SER	A	155	261.096	-49.532	90.511	1.00	71.09	A	O
ATOM	235	C	SER	A	155	262.393	-47.454	92.192	1.00	54.17	A	C
ATOM	236	O	SER	A	155	261.494	-46.653	92.054	1.00	41.48	A	O
ATOM	237	N	LYS	A	156	262.919	-47.739	93.368	1.00	54.36	A	N
ATOM	238	CA	LYS	A	156	262.415	-47.187	94.614	1.00	65.54	A	C
ATOM	239	CB	LYS	A	156	262.133	-45.687	94.476	1.00	68.88	A	C
ATOM	240	CG	LYS	A	156	263.375	-44.809	94.527	1.00	68.98	A	C
ATOM	241	CD	LYS	A	156	263.018	-43.342	94.698	1.00	65.67	A	C
ATOM	242	CE	LYS	A	156	262.170	-42.850	93.529	1.00	62.20	A	C
ATOM	243	NZ	LYS	A	156	261.774	-41.416	93.679	1.00	56.13	A	N
ATOM	244	C	LYS	A	156	261.138	-47.958	95.009	1.00	64.77	A	C
ATOM	245	O	LYS	A	156	260.317	-47.485	95.803	1.00	68.30	A	O
ATOM	246	N	PHE	A	157	261.012	-49.159	94.446	1.00	62.48	A	N
ATOM	247	CA	PHE	A	157	259.891	-50.051	94.679	1.00	52.64	A	C
ATOM	248	CB	PHE	A	157	259.878	-51.110	93.580	1.00	54.51	A	C
ATOM	249	CG	PHE	A	157	258.621	-51.933	93.525	1.00	52.32	A	C
ATOM	250	CD1	PHE	A	157	257.665	-51.694	92.549	1.00	54.81	A	C
ATOM	251	CD2	PHE	A	157	258.395	-52.950	94.448	1.00	55.89	A	C
ATOM	252	CE1	PHE	A	157	256.499	-52.451	92.487	1.00	53.63	A	C
ATOM	253	CE2	PHE	A	157	257.232	-53.719	94.401	1.00	54.27	A	C
ATOM	254	CZ	PHE	A	157	256.286	-53.467	93.419	1.00	58.00	A	C
ATOM	255	C	PHE	A	157	260.015	-50.719	96.056	1.00	51.79	A	C
ATOM	256	O	PHE	A	157	261.020	-51.370	96.340	1.00	47.35	A	O
ATOM	257	N	ILE	A	158	258.996	-50.539	96.900	1.00	50.33	A	N
ATOM	258	CA	ILE	A	158	258.997	-51.137	98.212	1.00	48.14	A	C
ATOM	259	CB	ILE	A	158	258.329	-50.196	99.284	1.00	48.26	A	C
ATOM	260	CG2	ILE	A	158	257.863	-50.988	100.478	1.00	42.57	A	C
ATOM	261	CG1	ILE	A	158	259.382	-49.205	99.795	1.00	48.74	A	C
ATOM	262	CD1	ILE	A	158	258.914	-48.326	100.849	1.00	60.25	A	C
ATOM	263	C	ILE	A	158	258.354	-52.530	98.176	1.00	52.33	A	C
ATOM	264	O	ILE	A	158	257.269	-52.732	97.635	1.00	50.55	A	O
ATOM	265	N	LEU	A	159	259.034	-53.472	98.823	1.00	52.37	A	N
ATOM	266	CA	LEU	A	159	258.631	-54.858	98.835	1.00	48.01	A	C
ATOM	267	CB	LEU	A	159	259.322	-55.530	97.663	1.00	49.17	A	C
ATOM	268	CG	LEU	A	159	260.759	-55.019	97.480	1.00	47.74	A	C
ATOM	269	CD1	LEU	A	159	261.690	-55.880	98.307	1.00	46.92	A	C
ATOM	270	CD2	LEU	A	159	261.150	-55.055	96.008	1.00	47.94	A	C
ATOM	271	C	LEU	A	159	259.089	-55.468	100.111	1.00	44.03	A	C
ATOM	272	O	LEU	A	159	259.595	-54.777	100.931	1.00	48.23	A	O

ATOM	273	N	ALA	A	160	258.889	-56.765	100.280	1.00	43.85	A	N
ATOM	274	CA	ALA	A	160	259.347	-57.465	101.474	1.00	37.28	A	C
ATOM	275	CB	ALA	A	160	258.187	-58.117	102.184	1.00	41.03	A	C
ATOM	276	C	ALA	A	160	260.346	-58.531	101.030	1.00	43.40	A	C
ATOM	277	O	ALA	A	160	260.084	-59.301	100.096	1.00	40.92	A	O
ATOM	278	N	LEU	A	161	261.494	-58.566	101.693	1.00	46.08	A	N
ATOM	279	CA	LEU	A	161	262.564	-59.520	101.378	1.00	44.64	A	C
ATOM	280·	CB	LEU	A	161	263.916	-58.794	101.334	1.00	47.23	A	C
ATOM	281	CG	LEU	A	161	264.865	-59.050	100.188	1.00	47.49	A	C
ATOM	282	CD1	LEU	A	161	264.153	-58.846	98.870	1.00	42.04	A	C
ATOM	283	CD2	LEU	A	161	266.031	-58.125	100.309	1.00	46.85	A	C
ATOM	284	C	LEU	A	161	262.607	-60.592	102.441	1.00	45.60	A	C
ATOM	285	O	LEU	A	161	263.013	-60.338	103.570	1.00	56.35	A	O
ATOM	286	N	LYS	A	162	262.194	-61.801	102.078	1.00	46.81	A	N
ATOM	287	CA	LYS	A	162	262.178	-62.940	103.009	1.00	41.78	A	C
ATOM	288	CB	LYS	A	162	261.104	-63.922	102.585	1.00	37.22	A	C
ATOM	289	CG	LYS	A	162	260.826	-65.007	103.588	1.00	34.96	A	C
ATOM	290	CD	LYS	A	162	259.600	-65.804	103.219	1.00	30.75	A	C
ATOM	291	CE	LYS	A	162	259.522	-67.056	104.081	1.00	32.45	A	C
ATOM	292	NZ	LYS	A	162	258.194	-67.801	103.796	1.00	32.97	A	N
ATOM	293	C	LYS	A	162	263.521	-63.634	103.018	1.00	43.17	A	C
ATOM	294	O	LYS	A	162	263.869	-64.350	102.087	1.00	50.65	A	O
ATOM	295	N	VAL	A	163	264.299	-63.369	104.049	1.00	47.41	A	N
ATOM	296	CA	VAL	A	163	265.625	-63.965	104.187	1.00	50.56	A	C
ATOM	297	CB	VAL	A	163	266.539	-63.091	105.120	1.00	49.49	A	C
ATOM	298	CG1	VAL	A	163	267.951	-63.664	105.180	1.00	43.15	A	C
ATOM	299	CG2	VAL	A	163	266.555	-61.660	104.586	1.00	46.95	A	C
ATOM	300	C	VAL	A	163	265.570	-65.371	104.756	1.00	48.41	A	C
ATOM	301	O	VAL	A	163	264.994	-65.586	105.798	1.00	53.08	A	O
ATOM	302	N	LEU	A	164	266.195	-66.329	104.085	1.00	53.99	A	N
ATOM	303	CA	LEU	A	164	266.261	-67.732	104.569	1.00	55.36	A	C
ATOM	304	CB	LEU	A	164	265.516	-68.657	103.598	1.00	54.99	A	C
ATOM	305	CG	LEU	A	164	264.173	-68.154	103.039	1.00	57.06	A	C
ATOM	306	CD1	LEU	A	164	264.096	-68.423	101.535	1.00	57.49	A	C
ATOM	307	CD2	LEU	A	164	263.093	-68.851	103.764	1.00	55.47	A	C
ATOM	308	C	LEU	A	164	267.715	-68.188	104.665	1.00	52.23	A	C
ATOM	309	O	LEU	A	164	268.488	-67.990	103.745	1.00	50.98	A	O
ATOM	310	N	PHE	A	165	268.081	-68.800	105.774	1.00	52.15	A	N
ATOM	311	CA	PHE	A	165	269.422	-69.297	105.892	1.00	51.87	A	C
ATOM	312	CB	PHE	A	165	269.859	-69.322	107.352	1.00	54.79	A	C
ATOM	313	CG	PHE	A	165	270.210	-67.979	107.875	1.00	59.43	A	C
ATOM	314	CD1	PHE	A	165	269.232	-67.171	108.426	1.00	61.03	A	C
ATOM	315	CD2	PHE	A	165	271.517	-67.493	107.769	1.00	59.15	A	C
ATOM	316	CE1	PHE	A	165	269.542	-65.896	108.856	1.00	59.31	A	C
ATOM	317	CE2	PHE	A	165	271.835	-66.216	108.196	1.00	59.42	A	C
ATOM	318	CZ	PHE	A	165	270.845	-65.412	108.745	1.00	60.41	A	C
ATOM	319	C	PHE	A	165	269.598	-70.683	105.287	1.00	52.40	A	C
ATOM	320	O	PHE	A	165	268.924	-71.654	105.675	1.00	45.64	A	O
ATOM	321	N	LYS	A	166	270.504	-70.772	104.320	1.00	52.32	A	N
ATOM	322	CA	LYS	A	166	270.786	-72.050	103.696	1.00	53.94	A	C
ATOM	323	CB	LYS	A	166	271.911	-71.916	102.708	1.00	47.98	A	C
ATOM	324	CG	LYS	A	166	271.540	-71.081	101.498	1.00	41.92	A	C
ATOM	325	CD	LYS	A	166	272.530	-71.309	100.383	1.00	38.85	A	C
ATOM	326	CE	LYS	A	166	272.490	-70.201	99.345	1.00	31.90	A	C
ATOM	327	NZ	LYS	A	166	273.477	-70.401	98.252	1.00	43.47	A	N
ATOM	328	C	LYS	A	166	271.159	-73.067	104.740	1.00	51.94	A	C
ATOM	329	O	LYS	A	166	270.625	-74.147	104.743	1.00	62.20	A	O
ATOM	330	N	ALA	A	167	272.031	-72.699	105.659	1.00	51.64	A	N
ATOM	331	CA	ALA	A	167	272.445	-73.632	106.682	1.00	51.81	A	C
ATOM	332	CB	ALA	A	167	273.293	-72.935	107.670	1.00	53.31	A	C
ATOM	333	C	ALA	A	167	271.234	-74.240	107.369	1.00	53.85	A	C
ATOM	334	O	ALA	A	167	271.105	-75.457	107.454	1.00	57.18	A	O
ATOM	335	N	GLN	A	168	270.318	-73.403	107.833	1.00	59.28	A	N
ATOM	336	CA	GLN	A	168	269.139	-73.902	108.534	1.00	59.95	A	C
ATOM	337	CB	GLN	A	168	268.348	-72.736	109.131	1.00	66.12	A	C
ATOM	338	CG	GLN	A	168	268.398	-72.648	110.644	1.00	72.61	A	C
ATOM	339	CD	GLN	A	168	267.038	-72.270	111.248	1.00	77.64	A	C
ATOM	340	OE1	GLN	A	168	266.542	-72.938	112.173	1.00	76.82	A	O
ATOM	341	NE2	GLN	A	168	266.432	-71.196	110.727	1.00	72.17	A	N
ATOM	342	C	GLN	A	168	268.221	-74.718	107.635	1.00	55.73	A	C

ATOM	343	O	GLN	A	168	267.646	-75.736	108.043	1.00	53.22	A	O
ATOM	344	N	LEU	A	169	268.076	-74.262	106.404	1.00	47.44	A	N
ATOM	345	CA	LEU	A	169	267.214	-74.954	105.430	1.00	53.18	A	C
ATOM	346	CB	LEU	A	169	267.236	-74.247	104.084	1.00	46.05	A	C
ATOM	347	CG	LEU	A	169	266.495	-72.939	104.055	1.00	47.35	A	C
ATOM	348	CD1	LEU	A	169	266.858	-72.184	102.803	1.00	45.64	A	C
ATOM	349	CD2	LEU	A	169	265.005	-73.224	104.130	1.00	44.94	A	C
ATOM	350	C	LEU	A	169	267.743	-76.381	105.180	1.00	53.79	A	C
ATOM	351	O	LEU	A	169	266.983	-77.361	105.065	1.00	54.87	A	O
ATOM	352	N	GLU	A	170	269.057	-76.488	105.056	1.00	54.40	A	N
ATOM	353	CA	GLU	A	170	269.692	-77.771	104.839	1.00	58.30	A	C
ATOM	354	CB	GLU	A	170	271.162	-77.587	104.678	1.00	57.36	A	C
ATOM	355	CG	GLU	A	170	271.585	-77.158	103.319	1.00	66.04	A	C
ATOM	356	CD	GLU	A	170	273.099	-76.836	103.260	1.00	73.19	A	C
ATOM	357	OE1	GLU	A	170	273.912	-77.755	103.560	1.00	76.86	A	O
ATOM	358	OE2	GLU	A	170	273.473	-75.670	102.918	1.00	77.40	A	O
ATOM	359	C	GLU	A	170	269.481	-78.643	106.045	1.00	60.58	A	C
ATOM	360	O	GLU	A	170	268.882	-79.730	105.913	1.00	71.27	A	O
ATOM	361	N	LYS	A	171	269.931	-78.162	107.207	1.00	59.38	A	N
ATOM	362	CA	LYS	A	171	269.817	-78.942	108.423	1.00	59.74	A	C
ATOM	363	CB	LYS	A	171	270.264	-78.118	109.600	1.00	58.50	A	C
ATOM	364	C	LYS	A	171	268.409	-79.500	108.655	1.00	62.87	A	C
ATOM	365	O	LYS	A	171	268.227	-80.438	109.441	1.00	65.46	A	O
ATOM	366	N	ALA	A	172	267.417	-78.939	107.970	1.00	58.04	A	N
ATOM	367	CA	ALA	A	172	266.044	-79.373	108.153	1.00	55.58	A	C
ATOM	368	CB	ALA	A	172	265.139	-78.157	108.445	1.00	44.25	A	C
ATOM	369	C	ALA	A	172	265.506	-80.129	106.962	1.00	57.83	A	C
ATOM	370	O	ALA	A	172	264.406	-80.699	107.038	1.00	63.97	A	O
ATOM	371	N	GLY	A	173	266.255	-80.108	105.860	1.00	59.05	A	N
ATOM	372	CA	GLY	A	173	265.825	-80.806	104.659	1.00	58.57	A	C
ATOM	373	C	GLY	A	173	264.519	-80.290	104.096	1.00	56.33	A	C
ATOM	374	O	GLY	A	173	263.636	-81.045	103.722	1.00	57.22	A	O
ATOM	375	N	VAL	A	174	264.392	-78.983	104.043	1.00	52.27	A	N
ATOM	376	CA	VAL	A	174	263.183	-78.389	103.520	1.00	51.67	A	C
ATOM	377	CB	VAL	A	174	262.555	-77.420	104.523	1.00	44.57	A	C
ATOM	378	CG1	VAL	A	174	262.061	-78.172	105.687	1.00	45.83	A	C
ATOM	379	CG2	VAL	A	174	263.557	-76.374	104.919	1.00	43.22	A	C
ATOM	380	C	VAL	A	174	263.518	-77.628	102.230	1.00	55.27	A	C
ATOM	381	O	VAL	A	174	262.825	-76.679	101.851	1.00	62.81	A	O
ATOM	382	N	GLU	A	175	264.577	-78.044	101.548	1.00	50.98	A	N
ATOM	383	CA	GLU	A	175	264.955	-77.393	100.296	1.00	52.00	A	C
ATOM	384	CB	GLU	A	175	266.251	-77.994	99.721	1.00	47.79	A	C
ATOM	385	CG	GLU	A	175	267.462	-77.861	100.680	1.00	59.64	A	C
ATOM	386	CD	GLU	A	175	267.730	-79.101	101.479	1.00	59.83	A	C
ATOM	387	OE1	GLU	A	175	266.822	-79.948	101.619	1.00	66.12	A	O
ATOM	388	OE2	GLU	A	175	268.853	-79.219	101.990	1.00	70.43	A	O
ATOM	389	C	GLU	A	175	263.852	-77.526	99.266	1.00	51.17	A	C
ATOM	390	O	GLU	A	175	263.637	-76.642	98.463	1.00	57.75	A	O
ATOM	391	N	HIS	A	176	263.166	-78.661	99.266	1.00	60.20	A	N
ATOM	392	CA	HIS	A	176	262.080	-78.920	98.312	1.00	61.34	A	C
ATOM	393	CB	HIS	A	176	261.735	-80.414	98.276	1.00	62.47	A	C
ATOM	394	CG	HIS	A	176	261.265	-80.959	99.579	1.00	70.92	A	C
ATOM	395	CD2	HIS	A	176	261.875	-81.020	100.783	1.00	68.70	A	C
ATOM	396	ND1	HIS	A	176	260.020	-81.533	99.740	1.00	72.07	A	N
ATOM	397	CE1	HIS	A	176	259.886	-81.925	100.994	1.00	75.43	A	C
ATOM	398	NE2	HIS	A	176	260.996	-81.625	101.644	1.00	77.22	A	N
ATOM	399	C	HIS	A	176	260.828	-78.116	98.620	1.00	60.76	A	C
ATOM	400	O	HIS	A	176	260.058	-77.805	97.733	1.00	64.86	A	O
ATOM	401	N	GLN	A	177	260.607	-77.784	99.886	1.00	63.60	A	N
ATOM	402	CA	GLN	A	177	259.436	-76.993	100.239	1.00	59.32	A	C
ATOM	403	CB	GLN	A	177	259.188	-77.080	101.756	1.00	65.79	A	C
ATOM	404	CG	GLN	A	177	258.573	-78.484	102.090	1.00	78.25	A	C
ATOM	405	CD	GLN	A	177	258.481	-78.896	103.539	1.00	84.93	A	C
ATOM	406	OE1	GLN	A	177	257.670	-79.822	103.897	1.00	89.62	A	O
ATOM	407	NE2	GLN	A	177	259.316	-78.274	104.407	1.00	87.76	A	N
ATOM	408	C	GLN	A	177	259.647	-75.552	99.730	1.00	54.25	A	C
ATOM	409	O	GLN	A	177	258.739	-75.013	99.073	1.00	51.39	A	O
ATOM	410	N	LEU	A	178	260.844	-74.972	99.942	1.00	45.84	A	N
ATOM	411	CA	LEU	A	178	261.123	-73.611	99.474	1.00	49.49	A	C
ATOM	412	CB	LEU	A	178	262.514	-73.175	99.900	1.00	42.21	A	C

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ATOM    413  CG  LEU A 178     263.032 -71.858  99.325  1.00 49.26      A    C
ATOM    414  CD1 LEU A 178     261.981 -70.693  99.584  1.00 37.20      A    C
ATOM    415  CD2 LEU A 178     264.421 -71.557  99.950  1.00 46.43      A    C
ATOM    416  C   LEU A 178     261.030 -73.631  97.939  1.00 46.87      A    C
ATOM    417  O   LEU A 178     260.678 -72.659  97.280  1.00 52.87      A    O
ATOM    418  N   ARG A 179     261.314 -74.778  97.360  1.00 52.38      A    N
ATOM    419  CA  ARG A 179     261.258 -74.887  95.908  1.00 48.78      A    C
ATOM    420  CB  ARG A 179     261.877 -76.207  95.443  1.00 55.74      A    C
ATOM    421  CG  ARG A 179     262.661 -76.085  94.149  1.00 55.19      A    C
ATOM    422  CD  ARG A 179     263.898 -77.002  94.178  1.00 71.41      A    C
ATOM    423  NE  ARG A 179     264.829 -76.685  93.086  1.00 73.48      A    N
ATOM    424  CZ  ARG A 179     264.827 -77.258  91.873  1.00 77.16      A    C
ATOM    425  NH1 ARG A 179     263.941 -78.208  91.565  1.00 70.26      A    N
ATOM    426  NH2 ARG A 179     265.709 -76.874  90.951  1.00 75.62      A    N
ATOM    427  C   ARG A 179     259.841 -74.758  95.383  1.00 46.80      A    C
ATOM    428  O   ARG A 179     259.605 -74.009  94.443  1.00 37.96      A    O
ATOM    429  N   ARG A 180     258.912 -75.494  95.988  1.00 41.56      A    N
ATOM    430  CA  ARG A 180     257.504 -75.451  95.630  1.00 46.45      A    C
ATOM    431  CB  ARG A 180     256.749 -76.543  96.386  1.00 47.01      A    C
ATOM    432  CG  ARG A 180     256.416 -77.762  95.546  1.00 51.52      A    C
ATOM    433  CD  ARG A 180     255.582 -78.783  96.257  1.00 53.97      A    C
ATOM    434  NE  ARG A 180     256.374 -79.863  96.824  1.00 69.57      A    N
ATOM    435  CZ  ARG A 180     256.902 -79.849  98.046  1.00 76.20      A    C
ATOM    436  NH1 ARG A 180     256.721 -78.796  98.846  1.00 85.82      A    N
ATOM    437  NH2 ARG A 180     257.614 -80.893  98.475  1.00 82.98      A    N
ATOM    438  C   ARG A 180     256.882 -74.100  95.969  1.00 48.19      A    C
ATOM    439  O   ARG A 180     256.088 -73.556  95.189  1.00 55.26      A    O
ATOM    440  N   GLU A 181     257.235 -73.560  97.130  1.00 49.77      A    N
ATOM    441  CA  GLU A 181     256.694 -72.279  97.536  1.00 48.24      A    C
ATOM    442  CB  GLU A 181     257.367 -71.820  98.841  1.00 51.28      A    C
ATOM    443  CG  GLU A 181     256.969 -70.425  99.303  1.00 55.39      A    C
ATOM    444  CD  GLU A 181     257.553 -70.042 100.652  1.00 57.20      A    C
ATOM    445  OE1 GLU A 181     258.173 -70.904 101.305  1.00 46.80      A    O
ATOM    446  OE2 GLU A 181     257.362 -68.871 101.058  1.00 56.40      A    O
ATOM    447  C   GLU A 181     256.958 -71.259  96.430  1.00 49.63      A    C
ATOM    448  O   GLU A 181     256.044 -70.571  95.930  1.00 44.79      A    O
ATOM    449  N   VAL A 182     258.227 -71.191  96.037  1.00 46.11      A    N
ATOM    450  CA  VAL A 182     258.659 -70.228  95.035  1.00 45.55      A    C
ATOM    451  CB  VAL A 182     260.183 -70.266  94.833  1.00 40.91      A    C
ATOM    452  CG1 VAL A 182     260.560 -69.403  93.678  1.00 38.12      A    C
ATOM    453  CG2 VAL A 182     260.875 -69.730  96.059  1.00 51.08      A    C
ATOM    454  C   VAL A 182     257.954 -70.443  93.695  1.00 46.82      A    C
ATOM    455  O   VAL A 182     257.459 -69.483  93.056  1.00 40.29      A    O
ATOM    456  N   GLU A 183     257.936 -71.690  93.237  1.00 48.08      A    N
ATOM    457  CA  GLU A 183     257.280 -72.012  91.968  1.00 52.62      A    C
ATOM    458  CB  GLU A 183     257.493 -73.478  91.608  1.00 56.60      A    C
ATOM    459  CG  GLU A 183     258.695 -73.784  90.808  1.00 70.69      A    C
ATOM    460  CD  GLU A 183     258.923 -75.283  90.746  1.00 77.34      A    C
ATOM    461  OE1 GLU A 183     257.954 -76.011  90.397  1.00 83.76      A    O
ATOM    462  OE2 GLU A 183     260.068 -75.727  91.052  1.00 82.45      A    O
ATOM    463  C   GLU A 183     255.800 -71.754  91.912  1.00 49.85      A    C
ATOM    464  O   GLU A 183     255.313 -71.138  90.947  1.00 46.36      A    O
ATOM    465  N   ILE A 184     255.098 -72.317  92.898  1.00 46.74      A    N
ATOM    466  CA  ILE A 184     253.660 -72.157  92.965  1.00 43.86      A    C
ATOM    467  CB  ILE A 184     253.067 -72.962  94.115  1.00 40.26      A    C
ATOM    468  CG2 ILE A 184     251.553 -72.714  94.209  1.00 29.84      A    C
ATOM    469  CG1 ILE A 184     253.313 -74.446  93.860  1.00 36.80      A    C
ATOM    470  CD1 ILE A 184     252.748 -75.369  94.961  1.00 40.80      A    C
ATOM    471  C   ILE A 184     253.221 -70.713  93.099  1.00 46.29      A    C
ATOM    472  O   ILE A 184     252.448 -70.199  92.284  1.00 49.47      A    O
ATOM    473  N   GLN A 185     253.720 -70.054  94.132  1.00 49.28      A    N
ATOM    474  CA  GLN A 185     253.328 -68.666  94.388  1.00 52.47      A    C
ATOM    475  CB  GLN A 185     253.948 -68.189  95.721  1.00 44.73      A    C
ATOM    476  CG  GLN A 185     253.150 -67.168  96.526  1.00 48.30      A    C
ATOM    477  CD  GLN A 185     253.861 -66.745  97.745  1.00 54.47      A    C
ATOM    478  OE1 GLN A 185     254.700 -67.516  98.331  1.00 61.67      A    O
ATOM    479  NE2 GLN A 185     253.553 -65.501  98.201  1.00 56.50      A    N
ATOM    480  C   GLN A 185     253.707 -67.716  93.231  1.00 50.63      A    C
ATOM    481  O   GLN A 185     252.971 -66.780  92.894  1.00 52.61      A    O
ATOM    482  N   SER A 186     254.843 -67.972  92.610  1.00 47.27      A    N
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ATOM	483	CA	SER	A	186	255.315	-67.114	91.541	1.00	52.03	A	C
ATOM	484	CB	SER	A	186	256.692	-67.586	91.048	1.00	51.09	A	C
ATOM	485	OG	SER	A	186	256.609	-68.877	90.496	1.00	54.11	A	O
ATOM	486	C	SER	A	186	254.346	-67.050	90.373	1.00	51.30	A	C
ATOM	487	O	SER	A	186	254.116	-65.999	89.812	1.00	53.71	A	O
ATOM	488	N	HIS	A	187	253.774	-68.184	90.001	1.00	55.86	A	N
ATOM	489	CA	HIS	A	187	252.846	-68.233	88.883	1.00	57.28	A	C
ATOM	490	CB	HIS	A	187	252.945	-69.605	88.190	1.00	68.44	A	C
ATOM	491	CG	HIS	A	187	254.283	-69.866	87.541	1.00	77.26	A	C
ATOM	492	CD2	HIS	A	187	255.147	-69.041	86.892	1.00	78.77	A	C
ATOM	493	ND1	HIS	A	187	254.874	-71.114	87.532	1.00	80.45	A	N
ATOM	494	CE1	HIS	A	187	256.041	-71.048	86.911	1.00	81.91	A	C
ATOM	495	NE2	HIS	A	187	256.232	-69.802	86.512	1.00	81.51	A	N
ATOM	496	C	HIS	A	187	251.418	-67.953	89.300	1.00	57.51	A	C
ATOM	497	O	HIS	A	187	250.496	-68.154	88.529	1.00	60.26	A	O
ATOM	498	N	LEU	A	188	251.230	-67.497	90.530	1.00	59.97	A	N
ATOM	499	CA	LEU	A	188	249.900	-67.189	91.028	1.00	56.67	A	C
ATOM	500	CB	LEU	A	188	249.832	-67.488	92.511	1.00	57.07	A	C
ATOM	501	CG	LEU	A	188	248.970	-68.663	92.952	1.00	55.73	A	C
ATOM	502	CD1	LEU	A	188	249.478	-69.896	92.257	1.00	62.61	A	C
ATOM	503	CD2	LEU	A	188	249.027	-68.827	94.465	1.00	53.98	A	C
ATOM	504	C	LEU	A	188	249.598	-65.728	90.777	1.00	57.85	A	C
ATOM	505	O	LEU	A	188	250.503	-64.881	90.799	1.00	64.49	A	O
ATOM	506	N	ARG	A	189	248.331	-65.440	90.507	1.00	59.25	A	N
ATOM	507	CA	ARG	A	189	247.893	-64.067	90.239	1.00	63.66	A	C
ATOM	508	CB	ARG	A	189	247.927	-63.796	88.734	1.00	64.78	A	C
ATOM	509	CG	ARG	A	189	249.318	-63.660	88.125	1.00	70.33	A	C
ATOM	510	CD	ARG	A	189	249.903	-62.285	88.356	1.00	72.14	A	C
ATOM	511	NE	ARG	A	189	250.864	-61.937	87.301	1.00	81.14	A	N
ATOM	512	CZ	ARG	A	189	250.716	-60.923	86.432	1.00	82.52	A	C
ATOM	513	NH1	ARG	A	189	249.636	-60.138	86.478	1.00	79.99	A	N
ATOM	514	NH2	ARG	A	189	251.658	-60.669	85.521	1.00	82.64	A	N
ATOM	515	C	ARG	A	189	246.469	-63.844	90.761	1.00	59.43	A	C
ATOM	516	O	ARG	A	189	245.497	-64.167	90.072	1.00	61.20	A	O
ATOM	517	N	HIS	A	190	246.342	-63.283	91.964	1.00	56.49	A	N
ATOM	518	CA	HIS	A	190	245.023	-63.075	92.565	1.00	48.34	A	C
ATOM	519	CB	HIS	A	190	244.506	-64.377	93.201	1.00	52.70	A	C
ATOM	520	CG	HIS	A	190	243.036	-64.372	93.489	1.00	49.06	A	C
ATOM	521	CD2	HIS	A	190	242.038	-65.207	93.107	1.00	52.53	A	C
ATOM	522	ND1	HIS	A	190	242.449	-63.432	94.302	1.00	51.06	A	N
ATOM	523	CE1	HIS	A	190	241.155	-63.686	94.414	1.00	46.17	A	C
ATOM	524	NE2	HIS	A	190	240.878	-64.757	93.697	1.00	43.53	A	N
ATOM	525	C	HIS	A	190	245.116	-61.998	93.611	1.00	47.54	A	C
ATOM	526	O	HIS	A	190	246.077	-61.946	94.377	1.00	44.41	A	O
ATOM	527	N	PRO	A	191	244.119	-61.102	93.645	1.00	49.93	A	N
ATOM	528	CD	PRO	A	191	242.947	-61.054	92.749	1.00	46.91	A	C
ATOM	529	CA	PRO	A	191	244.070	-59.992	94.607	1.00	49.33	A	C
ATOM	530	CB	PRO	A	191	242.694	-59.384	94.346	1.00	50.21	A	C
ATOM	531	CG	PRO	A	191	242.518	-59.644	92.887	1.00	48.82	A	C
ATOM	532	C	PRO	A	191	244.239	-60.419	96.072	1.00	46.55	A	C
ATOM	533	O	PRO	A	191	244.892	-59.719	96.848	1.00	42.94	A	O
ATOM	534	N	ASN	A	192	243.647	-61.555	96.434	1.00	42.75	A	N
ATOM	535	CA	ASN	A	192	243.715	-62.060	97.791	1.00	48.46	A	C
ATOM	536	CB	ASN	A	192	242.378	-62.678	98.192	1.00	45.61	A	C
ATOM	537	CG	ASN	A	192	241.206	-61.781	97.847	1.00	48.26	A	C
ATOM	538	OD1	ASN	A	192	240.715	-61.767	96.724	1.00	55.77	A	O
ATOM	539	ND2	ASN	A	192	240.766	-61.020	98.804	1.00	48.89	A	N
ATOM	540	C	ASN	A	192	244.831	-63.085	97.953	1.00	44.35	A	C
ATOM	541	O	ASN	A	192	244.725	-64.017	98.747	1.00	54.33	A	O
ATOM	542	N	ILE	A	193	245.909	-62.901	97.204	1.00	42.87	A	N
ATOM	543	CA	ILE	A	193	247.067	-63.781	97.277	1.00	40.40	A	C
ATOM	544	CB	ILE	A	193	247.054	-64.847	96.138	1.00	40.53	A	C
ATOM	545	CG2	ILE	A	193	248.292	-65.733	96.243	1.00	22.41	A	C
ATOM	546	CG1	ILE	A	193	245.800	-65.732	96.274	1.00	36.30	A	C
ATOM	547	CD1	ILE	A	193	245.709	-66.793	95.246	1.00	46.23	A	C
ATOM	548	C	ILE	A	193	248.330	-62.944	97.180	1.00	43.53	A	C
ATOM	549	O	ILE	A	193	248.481	-62.176	96.228	1.00	41.20	A	O
ATOM	550	N	LEU	A	194	249.217	-63.070	98.171	1.00	46.32	A	N
ATOM	551	CA	LEU	A	194	250.449	-62.307	98.168	1.00	48.93	A	C
ATOM	552	CB	LEU	A	194	251.233	-62.511	99.477	1.00	44.51	A	C

ATOM	553	CG	LEU	A	194	252.485	-61.630	99.579	1.00	41.08	A	C
ATOM	554	CD1	LEU	A	194	252.055	-60.195	99.956	1.00	43.64	A	C
ATOM	555	CD2	LEU	A	194	253.437	-62.183	100.655	1.00	41.05	A	C
ATOM	556	C	LEU	A	194	251.290	-62.773	96.988	1.00	49.00	A	C
ATOM	557	O	LEU	A	194	251.553	-63.975	96.826	1.00	53.77	A	O
ATOM	558	N	ARG	A	195	251.712	-61.823	96.162	1.00	43.08	A	N
ATOM	559	CA	ARG	A	195	252.553	-62.166	95.023	1.00	45.19	A	C
ATOM	560	CB	ARG	A	195	252.509	-61.043	93.969	1.00	43.15	A	C
ATOM	561	CG	ARG	A	195	251.180	-60.913	93.213	1.00	46.56	A	C
ATOM	562	CD	ARG	A	195	251.400	-60.798	91.730	1.00	59.57	A	C
ATOM	563	NE	ARG	A	195	252.816	-60.787	91.377	1.00	72.51	A	N
ATOM	564	CZ	ARG	A	195	253.288	-60.716	90.133	1.00	78.66	A	C
ATOM	565	NH1	ARG	A	195	252.446	-60.646	89.119	1.00	80.03	A	N
ATOM	566	NH2	ARG	A	195	254.603	-60.723	89.898	1.00	82.29	A	N
ATOM	567	C	ARG	A	195	254.004	-62.450	95.390	1.00	44.60	A	C
ATOM	568	O	ARG	A	195	254.470	-62.001	96.429	1.00	47.11	A	O
ATOM	569	N	LEU	A	196	254.710	-63.177	94.522	1.00	48.18	A	N
ATOM	570	CA	LEU	A	196	256.116	-63.465	94.735	1.00	48.30	A	C
ATOM	571	CB	LEU	A	196	256.345	-64.954	95.048	1.00	50.39	A	C
ATOM	572	CG	LEU	A	196	257.768	-65.343	95.383	1.00	41.45	A	C
ATOM	573	CD1	LEU	A	196	258.090	-64.804	96.698	1.00	58.09	A	C
ATOM	574	CD2	LEU	A	196	257.886	-66.788	95.411	1.00	44.21	A	C
ATOM	575	C	LEU	A	196	256.799	-63.091	93.432	1.00	50.04	A	C
ATOM	576	O	LEU	A	196	256.887	-63.926	92.532	1.00	56.48	A	O
ATOM	577	N	TYR	A	197	257.301	-61.854	93.359	1.00	52.17	A	N
ATOM	578	CA	TYR	A	197	257.970	-61.330	92.172	1.00	49.64	A	C
ATOM	579	CB	TYR	A	197	258.419	-59.908	92.460	1.00	44.72	A	C
ATOM	580	CG	TYR	A	197	257.289	-59.034	92.959	1.00	43.03	A	C
ATOM	581	CD1	TYR	A	197	257.445	-58.246	94.117	1.00	44.46	A	C
ATOM	582	CE1	TYR	A	197	256.439	-57.433	94.583	1.00	51.15	A	C
ATOM	583	CD2	TYR	A	197	256.085	-58.978	92.278	1.00	41.30	A	C
ATOM	584	CE2	TYR	A	197	255.057	-58.161	92.730	1.00	50.46	A	C
ATOM	585	CZ	TYR	A	197	255.243	-57.390	93.887	1.00	52.65	A	C
ATOM	586	OH	TYR	A	197	254.234	-56.573	94.338	1.00	63.16	A	O
ATOM	587	C	TYR	A	197	259.142	-62.186	91.684	1.00	51.16	A	C
ATOM	588	O	TYR	A	197	259.129	-62.683	90.572	1.00	58.21	A	O
ATOM	589	N	GLY	A	198	260.141	-62.378	92.529	1.00	53.24	A	N
ATOM	590	CA	GLY	A	198	261.296	-63.164	92.148	1.00	47.33	A	C
ATOM	591	C	GLY	A	198	262.028	-63.697	93.360	1.00	48.93	A	C
ATOM	592	O	GLY	A	198	261.447	-63.928	94.412	1.00	49.80	A	O
ATOM	593	N	TYR	A	199	263.316	-63.941	93.204	1.00	48.77	A	N
ATOM	594	CA	TYR	A	199	264.134	-64.436	94.315	1.00	50.98	A	C
ATOM	595	CB	TYR	A	199	263.712	-65.834	94.699	1.00	54.11	A	C
ATOM	596	CG	TYR	A	199	264.323	-66.921	93.853	1.00	56.57	A	C
ATOM	597	CD1	TYR	A	199	265.506	-67.521	94.238	1.00	57.21	A	C
ATOM	598	CE1	TYR	A	199	266.088	-68.526	93.471	1.00	58.18	A	C
ATOM	599	CD2	TYR	A	199	263.715	-67.351	92.664	1.00	59.67	A	C
ATOM	600	CE2	TYR	A	199	264.286	-68.349	91.899	1.00	59.17	A	C
ATOM	601	CZ	TYR	A	199	265.479	-68.933	92.308	1.00	59.36	A	C
ATOM	602	OH	TYR	A	199	266.075	-69.917	91.535	1.00	63.54	A	O
ATOM	603	C	TYR	A	199	265.563	-64.463	93.826	1.00	48.41	A	C
ATOM	604	O	TYR	A	199	265.787	-64.357	92.640	1.00	47.41	A	O
ATOM	605	N	PHE	A	200	266.542	-64.591	94.701	1.00	43.25	A	N
ATOM	606	CA	PHE	A	200	267.921	-64.582	94.221	1.00	40.67	A	C
ATOM	607	CB	PHE	A	200	268.427	-63.159	93.950	1.00	43.34	A	C
ATOM	608	CG	PHE	A	200	268.272	-62.218	95.134	1.00	48.79	A	C
ATOM	609	CD1	PHE	A	200	269.249	-62.115	96.166	1.00	50.06	A	C
ATOM	610	CD2	PHE	A	200	267.178	-61.322	95.162	1.00	52.88	A	C
ATOM	611	CE1	PHE	A	200	269.107	-61.097	97.192	1.00	53.41	A	C
ATOM	612	CE2	PHE	A	200	267.048	-60.331	96.166	1.00	49.85	A	C
ATOM	613	CZ	PHE	A	200	267.993	-60.201	97.160	1.00	49.27	A	C
ATOM	614	C	PHE	A	200	268.645	-65.113	95.325	1.00	47.09	A	C
ATOM	615	O	PHE	A	200	268.037	-65.599	96.262	1.00	47.13	A	O
ATOM	616	N	HIS	A	201	269.953	-65.125	95.219	1.00	56.46	A	N
ATOM	617	CA	HIS	A	201	270.635	-65.604	96.382	1.00	56.94	A	C
ATOM	618	CB	HIS	A	201	270.242	-67.052	96.679	1.00	62.89	A	C
ATOM	619	CG	HIS	A	201	270.668	-68.030	95.648	1.00	66.27	A	C
ATOM	620	CD2	HIS	A	201	270.131	-68.454	94.469	1.00	68.86	A	C
ATOM	621	ND1	HIS	A	201	271.876	-68.658	95.778	1.00	70.42	A	N
ATOM	622	CE1	HIS	A	201	272.086	-69.425	94.727	1.00	63.77	A	C

ATOM	623	NE2	HIS	A	201	271.048	-69.319	93.917	1.00	69.53	A	N
ATOM	624	C	HIS	A	201	272.082	-65.339	96.531	1.00	59.01	A	C
ATOM	625	O	HIS	A	201	272.657	-64.604	95.737	1.00	56.46	A	O
ATOM	626	N	ASP	A	202	272.636	-65.783	97.652	1.00	53.50	A	N
ATOM	627	CA	ASP	A	202	274.052	-65.546	97.850	1.00	58.12	A	C
ATOM	628	CB	ASP	A	202	274.321	-64.225	98.617	1.00	61.13	A	C
ATOM	629	CG	ASP	A	202	273.888	-64.255	100.090	1.00	65.37	A	C
ATOM	630	OD1	ASP	A	202	273.969	-65.308	100.803	1.00	69.09	A	O
ATOM	631	OD2	ASP	A	202	273.489	-63.181	100.569	1.00	73.25	A	O
ATOM	632	C	ASP	A	202	274.782	-66.745	98.522	1.00	59.73	A	C
ATOM	633	O	ASP	A	202	274.357	-67.899	98.426	1.00	61.93	A	O
ATOM	634	N	ALA	A	203	275.910	-66.473	99.163	1.00	59.60	A	N
ATOM	635	CA	ALA	A	203	276.705	-67.507	99.793	1.00	59.87	A	C
ATOM	636	CB	ALA	A	203	278.079	-66.933	100.191	1.00	57.31	A	C
ATOM	637	C	ALA	A	203	276.068	-68.138	100.990	1.00	60.08	A	C
ATOM	638	O	ALA	A	203	276.287	-69.294	101.229	1.00	62.79	A	O
ATOM	639	N	THR	A	204	275.291	-67.377	101.748	1.00	60.13	A	N
ATOM	640	CA	THR	A	204	274.700	-67.893	102.968	1.00	58.14	A	C
ATOM	641	CB	THR	A	204	275.067	-67.010	104.168	1.00	54.92	A	C
ATOM	642	OG1	THR	A	204	275.068	-65.622	103.799	1.00	51.82	A	O
ATOM	643	CG2	THR	A	204	276.406	-67.388	104.681	1.00	55.25	A	C
ATOM	644	C	THR	A	204	273.203	-68.070	102.993	1.00	61.74	A	C
ATOM	645	O	THR	A	204	272.662	-69.063	103.547	1.00	66.23	A	O
ATOM	646	N	ARG	A	205	272.517	-67.099	102.434	1.00	58.56	A	N
ATOM	647	CA	ARG	A	205	271.091	-67.217	102.444	1.00	58.96	A	C
ATOM	648	CB	ARG	A	205	270.505	-66.287	103.493	1.00	56.07	A	C
ATOM	649	CG	ARG	A	205	270.986	-64.877	103.382	1.00	59.74	A	C
ATOM	650	CD	ARG	A	205	271.764	-64.493	104.616	1.00	62.84	A	C
ATOM	651	NE	ARG	A	205	272.739	-63.462	104.285	1.00	73.59	A	N
ATOM	652	CZ	ARG	A	205	273.407	-62.747	105.185	1.00	79.55	A	C
ATOM	653	NH1	ARG	A	205	273.198	-62.946	106.482	1.00	80.70	A	N
ATOM	654	NH2	ARG	A	205	274.297	-61.845	104.792	1.00	87.21	A	N
ATOM	655	C	ARG	A	205	270.418	-67.012	101.120	1.00	56.37	A	C
ATOM	656	O	ARG	A	205	271.034	-66.604	100.116	1.00	64.50	A	O
ATOM	657	N	VAL	A	206	269.150	-67.373	101.124	1.00	54.49	A	N
ATOM	658	CA	VAL	A	206	268.304	-67.238	99.960	1.00	50.29	A	C
ATOM	659	CB	VAL	A	206	267.536	-68.522	99.670	1.00	47.01	A	C
ATOM	660	CG1	VAL	A	206	266.800	-68.370	98.374	1.00	38.39	A	C
ATOM	661	CG2	VAL	A	206	268.488	-69.696	99.620	1.00	42.93	A	C
ATOM	662	C	VAL	A	206	267.306	-66.124	100.321	1.00	50.23	A	C
ATOM	663	O	VAL	A	206	266.870	-65.982	101.487	1.00	49.82	A	O
ATOM	664	N	TYR	A	207	266.958	-65.330	99.320	1.00	47.64	A	N
ATOM	665	CA	TYR	A	207	266.053	-64.226	99.517	1.00	47.19	A	C
ATOM	666	CB	TYR	A	207	266.748	-62.879	99.204	1.00	44.49	A	C
ATOM	667	CG	TYR	A	207	268.077	-62.684	99.852	1.00	52.24	A	C
ATOM	668	CD1	TYR	A	207	269.198	-63.362	99.385	1.00	51.97	A	C
ATOM	669	CE1	TYR	A	207	270.438	-63.194	99.978	1.00	60.89	A	C
ATOM	670	CD2	TYR	A	207	268.227	-61.820	100.938	1.00	55.49	A	C
ATOM	671	CE2	TYR	A	207	269.499	-61.638	101.553	1.00	62.31	A	C
ATOM	672	CZ	TYR	A	207	270.583	-62.327	101.069	1.00	60.88	A	C
ATOM	673	OH	TYR	A	207	271.783	-62.141	101.704	1.00	68.24	A	O
ATOM	674	C	TYR	A	207	264.837	-64.374	98.618	1.00	42.31	A	C
ATOM	675	O	TYR	A	207	264.940	-64.704	97.438	1.00	43.03	A	O
ATOM	676	N	LEU	A	208	263.671	-64.078	99.171	1.00	47.18	A	N
ATOM	677	CA	LEU	A	208	262.441	-64.129	98.377	1.00	49.66	A	C
ATOM	678	CB	LEU	A	208	261.411	-65.084	99.005	1.00	50.68	A	C
ATOM	679	CG	LEU	A	208	261.731	-66.573	98.967	1.00	50.97	A	C
ATOM	680	CD1	LEU	A	208	260.525	-67.349	99.471	1.00	51.61	A	C
ATOM	681	CD2	LEU	A	208	262.019	-66.964	97.575	1.00	53.77	A	C
ATOM	682	C	LEU	A	208	261.849	-62.733	98.264	1.00	50.25	A	C
ATOM	683	O	LEU	A	208	261.525	-62.085	99.278	1.00	54.78	A	O
ATOM	684	N	ILE	A	209	261.692	-62.286	97.027	1.00	50.37	A	N
ATOM	685	CA	ILE	A	209	261.154	-60.971	96.752	1.00	49.74	A	C
ATOM	686	CB	ILE	A	209	261.695	-60.499	95.420	1.00	50.44	A	C
ATOM	687	CG2	ILE	A	209	261.168	-59.096	95.082	1.00	50.97	A	C
ATOM	688	CG1	ILE	A	209	263.225	-60.485	95.511	1.00	49.66	A	C
ATOM	689	CD1	ILE	A	209	263.919	-60.607	94.181	1.00	51.66	A	C
ATOM	690	C	ILE	A	209	259.624	-61.075	96.749	1.00	51.17	A	C
ATOM	691	O	ILE	A	209	259.048	-61.543	95.755	1.00	54.45	A	O
ATOM	692	N	LEU	A	210	258.981	-60.655	97.854	1.00	47.03	A	N

ATOM	693	CA	LEU	A	210	257.530	-60.728	97.990	1.00	43.40	A	C
ATOM	694	CB	LEU	A	210	257.164	-61.286	99.362	1.00	43.91	A	C
ATOM	695	CG	LEU	A	210	257.762	-62.625	99.773	1.00	42.46	A	C
ATOM	696	CD1	LEU	A	210	257.695	-62.764	101.264	1.00	44.44	A	C
ATOM	697	CD2	LEU	A	210	257.029	-63.701	99.100	1.00	44.23	A	C
ATOM	698	C	LEU	A	210	256.873	-59.393	97.827	1.00	42.69	A	C
ATOM	699	O	LEU	A	210	257.528	-58.371	97.627	1.00	50.83	A	O
ATOM	700	N	GLU	A	211	255.552	-59.403	97.901	1.00	45.93	A	N
ATOM	701	CA	GLU	A	211	254.757	-58.173	97.813	1.00	41.90	A	C
ATOM	702	CB	GLU	A	211	253.383	-58.471	97.201	1.00	39.85	A	C
ATOM	703	CG	GLU	A	211	252.402	-57.354	97.290	1.00	41.17	A	C
ATOM	704	CD	GLU	A	211	250.976	-57.788	96.890	1.00	51.54	A	C
ATOM	705	OE1	GLU	A	211	250.012	-56.980	97.025	1.00	57.54	A	O
ATOM	706	OE2	GLU	A	211	250.798	-58.950	96.438	1.00	52.59	A	O
ATOM	707	C	GLU	A	211	254.608	-57.669	99.259	1.00	38.67	A	C
ATOM	708	O	GLU	A	211	254.507	-58.477	100.200	1.00	42.39	A	O
ATOM	709	N	TYR	A	212	254.619	-56.346	99.428	1.00	43.63	A	N
ATOM	710	CA	TYR	A	212	254.500	-55.725	100.757	1.00	47.96	A	C
ATOM	711	CB	TYR	A	212	255.181	-54.338	100.753	1.00	46.03	A	C
ATOM	712	CG	TYR	A	212	255.029	-53.534	102.025	1.00	44.95	A	C
ATOM	713	CD1	TYR	A	212	255.255	-54.104	103.259	1.00	42.54	A	C
ATOM	714	CE1	TYR	A	212	255.084	-53.363	104.429	1.00	48.54	A	C
ATOM	715	CD2	TYR	A	212	254.639	-52.193	101.984	1.00	44.86	A	C
ATOM	716	CE2	TYR	A	212	254.473	-51.424	103.164	1.00	50.04	A	C
ATOM	717	CZ	TYR	A	212	254.693	-52.019	104.372	1.00	48.45	A	C
ATOM	718	OH	TYR	A	212	254.523	-51.276	105.514	1.00	53.45	A	O
ATOM	719	C	TYR	A	212	253.041	-55.618	101.248	1.00	50.57	A	C
ATOM	720	O	TYR	A	212	252.153	-55.140	100.508	1.00	51.02	A	O
ATOM	721	N	ALA	A	213	252.799	-56.105	102.475	1.00	48.23	A	N
ATOM	722	CA	ALA	A	213	251.459	-56.040	103.078	1.00	51.96	A	C
ATOM	723	CB	ALA	A	213	251.084	-57.386	103.656	1.00	42.77	A	C
ATOM	724	C	ALA	A	213	251.528	-54.973	104.177	1.00	46.25	A	C
ATOM	725	O	ALA	A	213	251.958	-55.259	105.280	1.00	57.39	A	O
ATOM	726	N	PRO	A	214	251.109	-53.734	103.869	1.00	45.44	A	N
ATOM	727	CD	PRO	A	214	250.592	-53.315	102.549	1.00	45.81	A	C
ATOM	728	CA	PRO	A	214	251.118	-52.597	104.782	1.00	37.64	A	C
ATOM	729	CB	PRO	A	214	250.400	-51.512	103.991	1.00	44.41	A	C
ATOM	730	CG	PRO	A	214	250.755	-51.821	102.584	1.00	45.51	A	C
ATOM	731	C	PRO	A	214	250.481	-52.833	106.112	1.00	39.63	A	C
ATOM	732	O	PRO	A	214	251.116	-52.486	107.123	1.00	38.67	A	O
ATOM	733	N	LEU	A	215	249.287	-53.446	106.124	1.00	33.01	A	N
ATOM	734	CA	LEU	A	215	248.570	-53.617	107.371	1.00	35.54	A	C
ATOM	735	CB	LEU	A	215	247.074	-53.585	107.083	1.00	39.80	A	C
ATOM	736	CG	LEU	A	215	246.571	-52.332	106.331	1.00	39.22	A	C
ATOM	737	CD1	LEU	A	215	245.025	-52.236	106.407	1.00	37.56	A	C
ATOM	738	CD2	LEU	A	215	247.156	-51.166	106.898	1.00	36.39	A	C
ATOM	739	C	LEU	A	215	248.923	-54.805	108.248	1.00	43.21	A	C
ATOM	740	O	LEU	A	215	248.208	-55.121	109.220	1.00	39.03	A	O
ATOM	741	N	GLY	A	216	250.022	-55.466	107.906	1.00	42.62	A	N
ATOM	742	CA	GLY	A	216	250.443	-56.630	108.669	1.00	46.42	A	C
ATOM	743	C	GLY	A	216	249.594	-57.891	108.554	1.00	44.15	A	C
ATOM	744	O	GLY	A	216	248.995	-58.166	107.504	1.00	46.45	A	O
ATOM	745	N	THR	A	217	249.523	-58.640	109.656	1.00	39.98	A	N
ATOM	746	CA	THR	A	217	248.774	-59.889	109.669	1.00	43.21	A	C
ATOM	747	CB	THR	A	217	249.583	-61.040	110.286	1.00	43.67	A	C
ATOM	748	OG1	THR	A	217	249.791	-60.782	111.678	1.00	51.00	A	O
ATOM	749	CG2	THR	A	217	250.905	-61.201	109.605	1.00	41.04	A	C
ATOM	750	C	THR	A	217	247.450	-59.858	110.416	1.00	42.99	A	C
ATOM	751	O	THR	A	217	247.185	-58.962	111.227	1.00	41.59	A	O
ATOM	752	N	VAL	A	218	246.646	-60.881	110.166	1.00	41.73	A	N
ATOM	753	CA	VAL	A	218	245.335	-61.037	110.766	1.00	41.12	A	C
ATOM	754	CB	VAL	A	218	244.564	-62.091	109.970	1.00	41.84	A	C
ATOM	755	CG1	VAL	A	218	243.170	-62.251	110.488	1.00	43.61	A	C
ATOM	756	CG2	VAL	A	218	244.544	-61.670	108.463	1.00	33.71	A	C
ATOM	757	C	VAL	A	218	245.610	-61.486	112.201	1.00	40.94	A	C
ATOM	758	O	VAL	A	218	244.789	-61.326	113.078	1.00	51.00	A	O
ATOM	759	N	TYR	A	219	246.801	-62.026	112.429	1.00	45.88	A	N
ATOM	760	CA	TYR	A	219	247.233	-62.484	113.757	1.00	42.54	A	C
ATOM	761	CB	TYR	A	219	248.607	-63.148	113.673	1.00	45.91	A	C
ATOM	762	CG	TYR	A	219	249.102	-63.676	115.011	1.00	46.80	A	C

ATOM	763	CD1	TYR	A	219	248.755	-64.925	115.464	1.00	45.83	A	C
ATOM	764	CE1	TYR	A	219	249.176	-65.377	116.693	1.00	53.23	A	C
ATOM	765	CD2	TYR	A	219	249.884	-62.892	115.825	1.00	46.38	A	C
ATOM	766	CE2	TYR	A	219	250.310	-63.314	117.053	1.00	52.61	A	C
ATOM	767	CZ	TYR	A	219	249.961	-64.565	117.510	1.00	53.76	A	C
ATOM	768	OH	TYR	A	219	250.361	-64.985	118.789	1.00	54.10	A	O
ATOM	769	C	TYR	A	219	247.323	-61.287	114.702	1.00	44.93	A	C
ATOM	770	O	TYR	A	219	246.745	-61.322	115.825	1.00	40.09	A	O
ATOM	771	N	ARG	A	220	248.031	-60.243	114.240	1.00	37.14	A	N
ATOM	772	CA	ARG	A	220	248.172	-59.035	115.029	1.00	44.63	A	C
ATOM	773	CB	ARG	A	220	249.213	-58.086	114.396	1.00	42.95	A	C
ATOM	774	C	ARG	A	220	246.828	-58.318	115.225	1.00	43.95	A	C
ATOM	775	O	ARG	A	220	246.563	-57.773	116.314	1.00	44.55	A	O
ATOM	776	N	GLU	A	221	245.973	-58.369	114.198	1.00	44.85	A	N
ATOM	777	CA	GLU	A	221	244.688	-57.692	114.255	1.00	43.30	A	C
ATOM	778	CB	GLU	A	221	244.031	-57.678	112.884	1.00	46.86	A	C
ATOM	779	CG	GLU	A	221	242.921	-56.648	112.713	1.00	56.65	A	C
ATOM	780	CD	GLU	A	221	243.442	-55.193	112.758	1.00	63.09	A	C
ATOM	781	OE1	GLU	A	221	242.629	-54.238	112.637	1.00	66.10	A	O
ATOM	782	OE2	GLU	A	221	244.670	-55.005	112.919	1.00	66.07	A	O
ATOM	783	C	GLU	A	221	243.806	-58.412	115.243	1.00	46.56	A	C
ATOM	784	O	GLU	A	221	242.959	-57.802	115.900	1.00	44.66	A	O
ATOM	785	N	LEU	A	222	244.028	-59.719	115.362	1.00	46.74	A	N
ATOM	786	CA	LEU	A	222	243.259	-60.550	116.272	1.00	40.98	A	C
ATOM	787	CB	LEU	A	222	243.444	-62.013	115.880	1.00	42.79	A	C
ATOM	788	CG	LEU	A	222	242.339	-62.985	116.313	1.00	48.20	A	C
ATOM	789	CD1	LEU	A	222	240.982	-62.509	115.826	1.00	42.35	A	C
ATOM	790	CD2	LEU	A	222	242.649	-64.361	115.761	1.00	47.96	A	C
ATOM	791	C	LEU	A	222	243.744	-60.292	117.718	1.00	45.64	A	C
ATOM	792	O	LEU	A	222	242.995	-60.390	118.692	1.00	46.35	A	O
ATOM	793	N	GLN	A	223	245.008	-59.938	117.875	1.00	47.19	A	N
ATOM	794	CA	GLN	A	223	245.539	-59.670	119.203	1.00	48.16	A	C
ATOM	795	CB	GLN	A	223	247.056	-59.584	119.112	1.00	49.22	A	C
ATOM	796	CG	GLN	A	223	247.819	-60.926	119.032	1.00	56.96	A	C
ATOM	797	CD	GLN	A	223	249.300	-60.732	118.879	1.00	66.12	A	C
ATOM	798	OE1	GLN	A	223	249.807	-59.935	117.981	1.00	68.93	A	O
ATOM	799	NE2	GLN	A	223	250.067	-61.453	119.755	1.00	65.96	A	N
ATOM	800	C	GLN	A	223	244.994	-58.332	119.711	1.00	54.79	A	C
ATOM	801	O	GLN	A	223	244.710	-58.153	120.899	1.00	63.31	A	O
ATOM	802	N	LYS	A	224	244.877	-57.398	118.779	1.00	53.43	A	N
ATOM	803	CA	LYS	A	224	244.412	-56.042	119.021	1.00	52.16	A	C
ATOM	804	CB	LYS	A	224	244.668	-55.276	117.729	1.00	51.41	A	C
ATOM	805	CG	LYS	A	224	244.740	-53.805	117.796	1.00	58.82	A	C
ATOM	806	CD	LYS	A	224	245.109	-53.234	116.429	1.00	58.34	A	C
ATOM	807	CE	LYS	A	224	244.105	-52.175	115.957	1.00	57.11	A	C
ATOM	808	NZ	LYS	A	224	243.509	-52.549	114.632	1.00	62.05	A	N
ATOM	809	C	LYS	A	224	242.909	-55.999	119.415	1.00	46.25	A	C
ATOM	810	O	LYS	A	224	242.551	-55.374	120.392	1.00	53.53	A	O
ATOM	811	N	LEU	A	225	242.054	-56.685	118.658	1.00	40.03	A	N
ATOM	812	CA	LEU	A	225	240.616	-56.712	118.885	1.00	28.18	A	C
ATOM	813	CB	LEU	A	225	239.918	-56.682	117.544	1.00	32.03	A	C
ATOM	814	CG	LEU	A	225	240.538	-55.704	116.515	1.00	37.72	A	C
ATOM	815	CD1	LEU	A	225	239.725	-55.736	115.208	1.00	28.64	A	C
ATOM	816	CD2	LEU	A	225	240.577	-54.252	117.096	1.00	32.47	A	C
ATOM	817	C	LEU	A	225	240.076	-57.907	119.686	1.00	39.70	A	C
ATOM	818	O	LEU	A	225	238.896	-57.954	120.056	1.00	27.45	A	O
ATOM	819	N	SER	A	226	240.939	-58.877	119.958	1.00	33.23	A	N
ATOM	820	CA	SER	A	226	240.528	-60.051	120.695	1.00	38.91	A	C
ATOM	821	CB	SER	A	226	239.864	-59.653	122.015	1.00	42.93	A	C
ATOM	822	OG	SER	A	226	240.536	-58.570	122.642	1.00	59.01	A	O
ATOM	823	C	SER	A	226	239.548	-60.869	119.867	1.00	40.96	A	C
ATOM	824	O	SER	A	226	239.777	-62.029	119.592	1.00	45.01	A	O
ATOM	825	N	LYS	A	227	238.433	-60.270	119.484	1.00	43.12	A	N
ATOM	826	CA	LYS	A	227	237.409	-60.968	118.693	1.00	37.87	A	C
ATOM	827	CB	LYS	A	227	236.160	-61.246	119.551	1.00	41.34	A	C
ATOM	828	CG	LYS	A	227	236.384	-62.150	120.650	1.00	49.95	A	C
ATOM	829	CD	LYS	A	227	235.126	-62.365	121.469	1.00	59.51	A	C
ATOM	830	CE	LYS	A	227	234.854	-61.186	122.468	1.00	64.97	A	C
ATOM	831	NZ	LYS	A	227	234.813	-61.628	123.907	1.00	64.50	A	N
ATOM	832	C	LYS	A	227	237.009	-60.044	117.520	1.00	37.96	A	C

ATOM	833	O	LYS A 227	237.061	-58.799	117.619	1.00	40.95	A	O
ATOM	834	N	PHE A 228	236.575	-60.655	116.431	1.00	34.94	A	N
ATOM	835	CA	PHE A 228	236.175	-59.917	115.262	1.00	34.74	A	C
ATOM	836	CB	PHE A 228	236.793	-60.534	113.998	1.00	34.85	A	C
ATOM	837	CG	PHE A 228	238.248	-60.293	113.849	1.00	43.10	A	C
ATOM	838	CD1	PHE A 228	238.975	-61.009	112.913	1.00	43.37	A	C
ATOM	839	CD2	PHE A 228	238.899	-59.395	114.656	1.00	38.38	A	C
ATOM	840	CE1	PHE A 228	240.341	-60.832	112.796	1.00	48.51	A	C
ATOM	841	CE2	PHE A 228	240.266	-59.207	114.554	1.00	47.20	A	C
ATOM	842	CZ	PHE A 228	240.999	-59.919	113.631	1.00	48.16	A	C
ATOM	843	C	PHE A 228	234.654	-60.063	115.208	1.00	40.38	A	C
ATOM	844	O	PHE A 228	234.102	-61.082	115.664	1.00	36.38	A	O
ATOM	845	N	ASP A 229	233.963	-59.053	114.687	1.00	40.55	A	N
ATOM	846	CA	ASP A 229	232.525	-59.184	114.534	1.00	38.86	A	C
ATOM	847	CB	ASP A 229	231.823	-57.832	114.440	1.00	49.26	A	C
ATOM	848	CG	ASP A 229	232.394	-56.912	113.357	1.00	51.97	A	C
ATOM	849	OD1	ASP A 229	232.396	-57.278	112.179	1.00	54.02	A	O
ATOM	850	OD2	ASP A 229	232.806	-55.788	113.699	1.00	55.60	A	O
ATOM	851	C	ASP A 229	232.180	-60.027	113.304	1.00	41.70	A	C
ATOM	852	O	ASP A 229	233.039	-60.366	112.480	1.00	35.62	A	O
ATOM	853	N	GLU A 230	230.905	-60.365	113.193	1.00	40.43	A	N
ATOM	854	CA	GLU A 230	230.434	-61.213	112.114	1.00	43.61	A	C
ATOM	855	CB	GLU A 230	228.939	-61.526	112.298	1.00	43.33	A	C
ATOM	856	CG	GLU A 230	228.630	-62.147	113.653	1.00	43.90	A	C
ATOM	857	CD	GLU A 230	227.292	-62.967	113.627	1.00	48.51	A	C
ATOM	858	OE1	GLU A 230	226.230	-62.374	113.308	1.00	37.93	A	O
ATOM	859	OE2	GLU A 230	227.300	-64.204	113.916	1.00	42.11	A	O
ATOM	860	C	GLU A 230	230.661	-60.546	110.778	1.00	43.16	A	C
ATOM	861	O	GLU A 230	230.878	-61.205	109.779	1.00	50.29	A	O
ATOM	862	N	GLN A 231	230.590	-59.225	110.748	1.00	49.18	A	N
ATOM	863	CA	GLN A 231	230.742	-58.501	109.489	1.00	49.70	A	C
ATOM	864	CB	GLN A 231	230.311	-57.029	109.685	1.00	57.14	A	C
ATOM	865	CG	GLN A 231	229.958	-56.236	108.412	1.00	62.54	A	C
ATOM	866	CD	GLN A 231	231.200	-55.770	107.642	1.00	71.69	A	C
ATOM	867	OE1	GLN A 231	232.065	-55.042	108.191	1.00	72.68	A	O
ATOM	868	NE2	GLN A 231	231.300	-56.184	106.359	1.00	72.33	A	N
ATOM	869	C	GLN A 231	232.197	-58.614	109.018	1.00	45.76	A	C
ATOM	870	O	GLN A 231	232.470	-58.874	107.846	1.00	46.46	A	O
ATOM	871	N	ARG A 232	233.131	-58.437	109.949	1.00	43.95	A	N
ATOM	872	CA	ARG A 232	234.560	-58.503	109.661	1.00	38.33	A	C
ATOM	873	CB	ARG A 232	235.365	-57.998	110.861	1.00	39.16	A	C
ATOM	874	CG	ARG A 232	236.867	-58.073	110.703	1.00	31.46	A	C
ATOM	875	CD	ARG A 232	237.514	-57.172	111.705	1.00	51.25	A	C
ATOM	876	NE	ARG A 232	238.871	-56.815	111.334	1.00	58.24	A	N
ATOM	877	CZ	ARG A 232	239.275	-55.581	111.111	1.00	65.45	A	C
ATOM	878	NH1	ARG A 232	238.395	-54.594	111.226	1.00	62.94	A	N
ATOM	879	NH2	ARG A 232	240.551	-55.369	110.780	1.00	72.17	A	N
ATOM	880	C	ARG A 232	234.950	-59.946	109.369	1.00	42.02	A	C
ATOM	881	O	ARG A 232	235.757	-60.183	108.517	1.00	45.04	A	O
ATOM	882	N	THR A 233	234.372	-60.909	110.084	1.00	43.50	A	N
ATOM	883	CA	THR A 233	234.697	-62.320	109.891	1.00	37.00	A	C
ATOM	884	CB	THR A 233	234.104	-63.175	110.992	1.00	35.89	A	C
ATOM	885	OG1	THR A 233	234.543	-62.696	112.268	1.00	30.74	A	O
ATOM	886	CG2	THR A 233	234.488	-64.641	110.763	1.00	22.73	A	C
ATOM	887	C	THR A 233	234.149	-62.834	108.555	1.00	45.73	A	C
ATOM	888	O	THR A 233	234.857	-63.523	107.844	1.00	45.99	A	O
ATOM	889	N	ALA A 234	232.892	-62.501	108.228	1.00	44.83	A	N
ATOM	890	CA	ALA A 234	232.256	-62.897	106.960	1.00	41.77	A	C
ATOM	891	CB	ALA A 234	230.852	-62.351	106.893	1.00	39.48	A	C
ATOM	892	C	ALA A 234	233.064	-62.395	105.744	1.00	44.77	A	C
ATOM	893	O	ALA A 234	233.273	-63.131	104.786	1.00	39.69	A	O
ATOM	894	N	THR A 235	233.543	-61.155	105.799	1.00	43.07	A	N
ATOM	895	CA	THR A 235	234.328	-60.579	104.722	1.00	44.31	A	C
ATOM	896	CB	THR A 235	234.557	-59.058	104.926	1.00	44.88	A	C
ATOM	897	OG1	THR A 235	233.306	-58.373	104.984	1.00	49.29	A	O
ATOM	898	CG2	THR A 235	235.343	-58.498	103.807	1.00	37.93	A	C
ATOM	899	C	THR A 235	235.689	-61.252	104.654	1.00	47.59	A	C
ATOM	900	O	THR A 235	236.169	-61.504	103.551	1.00	49.69	A	O
ATOM	901	N	TYR A 236	236.310	-61.521	105.813	1.00	47.35	A	N
ATOM	902	CA	TYR A 236	237.613	-62.189	105.850	1.00	46.90	A	C

ATOM	903	CB	TYR	A	236	238.206	-62.221	107.255	1.00	42.67	A	C
ATOM	904	CG	TYR	A	236	239.024	-61.003	107.621	1.00	45.24	A	C
ATOM	905	CD1	TYR	A	236	239.154	-59.930	106.767	1.00	40.32	A	C
ATOM	906	CE1	TYR	A	236	239.909	-58.819	107.134	1.00	51.10	A	C
ATOM	907	CD2	TYR	A	236	239.667	-60.929	108.847	1.00	46.47	A	C
ATOM	908	CE2	TYR	A	236	240.430	-59.808	109.228	1.00	52.60	A	C
ATOM	909	CZ	TYR	A	236	240.542	-58.764	108.367	1.00	49.08	A	C
ATOM	910	OH	TYR	A	236	241.265	-57.653	108.719	1.00	58.26	A	O
ATOM	911	C	TYR	A	236	237.496	-63.604	105.334	1.00	47.98	A	C
ATOM	912	O	TYR	A	236	238.469	-64.148	104.832	1.00	58.71	A	O
ATOM	913	N	ILE	A	237	236.296	-64.177	105.416	1.00	50.41	A	N
ATOM	914	CA	ILE	A	237	236.032	-65.540	104.944	1.00	46.45	A	C
ATOM	915	CB	ILE	A	237	234.816	-66.156	105.635	1.00	45.13	A	C
ATOM	916	CG2	ILE	A	237	234.357	-67.442	104.903	1.00	42.23	A	C
ATOM	917	CG1	ILE	A	237	235.157	-66.440	107.101	1.00	42.93	A	C
ATOM	918	CD1	ILE	A	237	236.253	-67.436	107.317	1.00	39.73	A	C
ATOM	919	C	ILE	A	237	235.798	-65.597	103.462	1.00	51.53	A	C
ATOM	920	O	ILE	A	237	236.213	-66.548	102.822	1.00	55.68	A	O
ATOM	921	N	THR	A	238	235.148	-64.571	102.914	1.00	51.45	A	N
ATOM	922	CA	THR	A	238	234.858	-64.526	101.471	1.00	44.65	A	C
ATOM	923	CB	THR	A	238	233.929	-63.346	101.106	1.00	44.82	A	C
ATOM	924	OG1	THR	A	238	232.653	-63.512	101.719	1.00	43.65	A	O
ATOM	925	CG2	THR	A	238	233.701	-63.294	99.660	1.00	44.50	A	C
ATOM	926	C	THR	A	238	236.166	-64.350	100.706	1.00	47.18	A	C
ATOM	927	O	THR	A	238	236.467	-65.090	99.782	1.00	48.37	A	O
ATOM	928	N	GLU	A	239	236.956	-63.367	101.116	1.00	49.98	A	N
ATOM	929	CA	GLU	A	239	238.239	-63.082	100.473	1.00	52.23	A	C
ATOM	930	CB	GLU	A	239	238.937	-61.932	101.203	1.00	54.22	A	C
ATOM	931	CG	GLU	A	239	238.139	-60.624	101.260	1.00	55.95	A	C
ATOM	932	CD	GLU	A	239	238.811	-59.573	102.137	1.00	58.38	A	C
ATOM	933	OE1	GLU	A	239	239.056	-59.843	103.333	1.00	65.65	A	O
ATOM	934	OE2	GLU	A	239	239.099	-58.468	101.634	1.00	60.73	A	O
ATOM	935	C	GLU	A	239	239.109	-64.330	100.496	1.00	50.02	A	C
ATOM	936	O	GLU	A	239	239.851	-64.616	99.561	1.00	55.72	A	O
ATOM	937	N	LEU	A	240	238.978	-65.104	101.557	1.00	49.14	A	N
ATOM	938	CA	LEU	A	240	239.768	-66.305	101.702	1.00	48.27	A	C
ATOM	939	CB	LEU	A	240	239.776	-66.717	103.173	1.00	46.82	A	C
ATOM	940	CG	LEU	A	240	240.917	-67.581	103.679	1.00	45.79	A	C
ATOM	941	CD1	LEU	A	240	242.225	-67.030	103.195	1.00	50.28	A	C
ATOM	942	CD2	LEU	A	240	240.885	-67.603	105.172	1.00	53.83	A	C
ATOM	943	C	LEU	A	240	239.209	-67.420	100.833	1.00	49.65	A	C
ATOM	944	O	LEU	A	240	239.960	-68.170	100.210	1.00	53.66	A	O
ATOM	945	N	ALA	A	241	237.883	-67.519	100.778	1.00	45.02	A	N
ATOM	946	CA	ALA	A	241	237.222	-68.549	99.965	1.00	50.04	A	C
ATOM	947	CB	ALA	A	241	235.724	-68.611	100.256	1.00	39.53	A	C
ATOM	948	C	ALA	A	241	237.447	-68.278	98.481	1.00	47.71	A	C
ATOM	949	O	ALA	A	241	237.495	-69.203	97.682	1.00	54.94	A	O
ATOM	950	N	ASN	A	242	237.585	-67.012	98.114	1.00	49.50	A	N
ATOM	951	CA	ASN	A	242	237.839	-66.637	96.729	1.00	51.78	A	C
ATOM	952	CB	ASN	A	242	237.688	-65.134	96.554	1.00	45.48	A	C
ATOM	953	CG	ASN	A	242	236.231	-64.680	96.592	1.00	51.39	A	C
ATOM	954	OD1	ASN	A	242	235.972	-63.489	96.769	1.00	50.23	A	O
ATOM	955	ND2	ASN	A	242	235.276	-65.620	96.412	1.00	43.58	A	N
ATOM	956	C	ASN	A	242	239.241	-67.046	96.330	1.00	50.85	A	C
ATOM	957	O	ASN	A	242	239.419	-67.736	95.323	1.00	53.87	A	O
ATOM	958	N	ALA	A	243	240.230	-66.625	97.119	1.00	48.27	A	N
ATOM	959	CA	ALA	A	243	241.629	-66.970	96.861	1.00	42.21	A	C
ATOM	960	CB	ALA	A	243	242.534	-66.345	97.913	1.00	45.13	A	C
ATOM	961	C	ALA	A	243	241.816	-68.473	96.880	1.00	43.95	A	C
ATOM	962	O	ALA	A	243	242.498	-69.016	96.026	1.00	42.43	A	O
ATOM	963	N	LEU	A	244	241.219	-69.152	97.858	1.00	40.59	A	N
ATOM	964	CA	LEU	A	244	241.366	-70.606	97.945	1.00	48.68	A	C
ATOM	965	CB	LEU	A	244	240.689	-71.141	99.204	1.00	42.37	A	C
ATOM	966	CG	LEU	A	244	241.465	-70.944	100.495	1.00	39.60	A	C
ATOM	967	CD1	LEU	A	244	240.751	-71.763	101.602	1.00	37.99	A	C
ATOM	968	CD2	LEU	A	244	242.889	-71.432	100.340	1.00	35.22	A	C
ATOM	969	C	LEU	A	244	240.779	-71.311	96.702	1.00	56.87	A	C
ATOM	970	O	LEU	A	244	241.327	-72.330	96.220	1.00	60.52	A	O
ATOM	971	N	SER	A	245	239.662	-70.777	96.200	1.00	61.51	A	N
ATOM	972	CA	SER	A	245	239.010	-71.317	95.018	1.00	61.35	A	C

ATOM	973	CB	SER	A	245	237.785	-70.501	94.692	1.00	64.64	A	C
ATOM	974	OG	SER	A	245	237.339	-70.779	93.390	1.00	71.14	A	O
ATOM	975	C	SER	A	245	239.981	-71.242	93.855	1.00	63.54	A	C
ATOM	976	O	SER	A	245	240.179	-72.233	93.134	1.00	63.37	A	O
ATOM	977	N	TYR	A	246	240.581	-70.063	93.679	1.00	58.29	A	N
ATOM	978	CA	TYR	A	246	241.571	-69.855	92.633	1.00	57.08	A	C
ATOM	979	CB	TYR	A	246	242.123	-68.455	92.719	1.00	51.38	A	C
ATOM	980	CG	TYR	A	246	243.247	-68.195	91.754	1.00	55.36	A	C
ATOM	981	CD1	TYR	A	246	242.994	-67.652	90.492	1.00	50.94	A	C
ATOM	982	CE1	TYR	A	246	244.042	-67.382	89.609	1.00	55.86	A	C
ATOM	983	CD2	TYR	A	246	244.584	-68.473	92.111	1.00	54.39	A	C
ATOM	984	CE2	TYR	A	246	245.650	-68.213	91.234	1.00	55.81	A	C
ATOM	985	CZ	TYR	A	246	245.372	-67.665	89.982	1.00	55.07	A	C
ATOM	986	OH	TYR	A	246	246.409	-67.409	89.112	1.00	55.05	A	O
ATOM	987	C	TYR	A	246	242.732	-70.852	92.733	1.00	57.54	A	C
ATOM	988	O	TYR	A	246	243.234	-71.322	91.718	1.00	64.40	A	O
ATOM	989	N	CYS	A	247	243.150	-71.180	93.951	1.00	56.76	A	N
ATOM	990	CA	CYS	A	247	244.245	-72.120	94.148	1.00	57.81	A	C
ATOM	991	CB	CYS	A	247	244.779	-72.066	95.599	1.00	52.55	A	C
ATOM	992	SG	CYS	A	247	245.687	-70.569	96.004	1.00	57.32	A	S
ATOM	993	C	CYS	A	247	243.813	-73.538	93.837	1.00	59.03	A	C
ATOM	994	O	CYS	A	247	244.535	-74.272	93.143	1.00	61.55	A	O
ATOM	995	N	HIS	A	248	242.659	-73.930	94.374	1.00	60.08	A	N
ATOM	996	CA	HIS	A	248	242.151	-75.291	94.156	1.00	58.63	A	C
ATOM	997	CB	HIS	A	248	240.916	-75.540	95.036	1.00	57.40	A	C
ATOM	998	CG	HIS	A	248	241.217	-75.606	96.496	1.00	54.60	A	C
ATOM	999	CD2	HIS	A	248	242.393	-75.694	97.160	1.00	54.55	A	C
ATOM	1000	ND1	HIS	A	248	240.231	-75.623	97.459	1.00	54.23	A	N
ATOM	1001	CE1	HIS	A	248	240.789	-75.721	98.654	1.00	51.97	A	C
ATOM	1002	NE2	HIS	A	248	242.099	-75.765	98.501	1.00	50.58	A	N
ATOM	1003	C	HIS	A	248	241.806	-75.535	92.668	1.00	58.67	A	C
ATOM	1004	O	HIS	A	248	241.857	-76.667	92.171	1.00	50.45	A	O
ATOM	1005	N	SER	A	249	241.459	-74.464	91.959	1.00	53.97	A	N
ATOM	1006	CA	SER	A	249	241.133	-74.589	90.550	1.00	58.32	A	C
ATOM	1007	CB	SER	A	249	240.647	-73.248	89.991	1.00	55.40	A	C
ATOM	1008	OG	SER	A	249	241.757	-72.480	89.526	1.00	54.94	A	O
ATOM	1009	C	SER	A	249	242.407	-75.020	89.798	1.00	58.15	A	C
ATOM	1010	O	SER	A	249	242.326	-75.573	88.707	1.00	70.94	A	O
ATOM	1011	N	LYS	A	250	243.574	-74.746	90.370	1.00	51.49	A	N
ATOM	1012	CA	LYS	A	250	244.820	-75.119	89.753	1.00	46.67	A	C
ATOM	1013	CB	LYS	A	250	245.818	-73.947	89.805	1.00	31.37	A	C
ATOM	1014	C	LYS	A	250	245.364	-76.343	90.494	1.00	50.71	A	C
ATOM	1015	O	LYS	A	250	246.506	-76.755	90.233	1.00	60.01	A	O
ATOM	1016	N	ARG	A	251	244.553	-76.931	91.389	1.00	52.78	A	N
ATOM	1017	CA	ARG	A	251	244.965	-78.113	92.167	1.00	55.47	A	C
ATOM	1018	CB	ARG	A	251	245.383	-79.258	91.244	1.00	58.86	A	C
ATOM	1019	CG	ARG	A	251	244.211	-79.957	90.536	1.00	62.01	A	C
ATOM	1020	CD	ARG	A	251	244.126	-81.392	90.989	1.00	65.71	A	C
ATOM	1021	NE	ARG	A	251	242.807	-81.741	91.512	1.00	68.34	A	N
ATOM	1022	CZ	ARG	A	251	242.484	-82.945	92.002	1.00	72.31	A	C
ATOM	1023	NH1	ARG	A	251	243.384	-83.929	92.045	1.00	72.96	A	N
ATOM	1024	NH2	ARG	A	251	241.252	-83.178	92.445	1.00	71.74	A	N
ATOM	1025	C	ARG	A	251	246.099	-77.840	93.137	1.00	53.93	A	C
ATOM	1026	O	ARG	A	251	247.007	-78.666	93.285	1.00	57.77	A	O
ATOM	1027	N	VAL	A	252	246.043	-76.686	93.799	1.00	56.22	A	N
ATOM	1028	CA	VAL	A	252	247.072	-76.314	94.774	1.00	53.20	A	C
ATOM	1029	CB	VAL	A	252	247.721	-74.966	94.401	1.00	50.06	A	C
ATOM	1030	CG1	VAL	A	252	248.682	-74.549	95.463	1.00	49.54	A	C
ATOM	1031	CG2	VAL	A	252	248.418	-75.083	93.080	1.00	48.46	A	C
ATOM	1032	C	VAL	A	252	246.492	-76.207	96.196	1.00	54.67	A	C
ATOM	1033	O	VAL	A	252	245.536	-75.465	96.426	1.00	56.55	A	O
ATOM	1034	N	ILE	A	253	247.074	-76.956	97.130	1.00	52.34	A	N
ATOM	1035	CA	ILE	A	253	246.641	-76.948	98.498	1.00	42.71	A	C
ATOM	1036	CB	ILE	A	253	246.696	-78.341	99.103	1.00	38.24	A	C
ATOM	1037	CG2	ILE	A	253	245.676	-78.449	100.219	1.00	44.12	A	C
ATOM	1038	CG1	ILE	A	253	246.279	-79.380	98.083	1.00	35.92	A	C
ATOM	1039	CD1	ILE	A	253	246.298	-80.813	98.644	1.00	42.55	A	C
ATOM	1040	C	ILE	A	253	247.600	-76.096	99.279	1.00	48.08	A	C
ATOM	1041	O	ILE	A	253	248.808	-76.288	99.163	1.00	60.87	A	O
ATOM	1042	N	HIS	A	254	247.084	-75.165	100.086	1.00	50.60	A	N

ATOM	1043	CA	HIS	A	254	247.955	−74.319	100.906	1.00	45.11	A	C
ATOM	1044	CB	HIS	A	254	247.187	−73.086	101.374	1.00	43.92	A	C
ATOM	1045	CG	HIS	A	254	248.071	−72.014	101.916	1.00	44.85	A	C
ATOM	1046	CD2	HIS	A	254	248.486	−70.854	101.360	1.00	39.20	A	C
ATOM	1047	ND1	HIS	A	254	248.670	−72.089	103.158	1.00	39.59	A	N
ATOM	1048	CE1	HIS	A	254	249.414	−71.014	103.339	1.00	37.61	A	C
ATOM	1049	NE2	HIS	A	254	249.318	−70.250	102.265	1.00	38.54	A	N
ATOM	1050	C	HIS	A	254	248.490	−75.117	102.103	1.00	44.15	A	C
ATOM	1051	O	HIS	A	254	249.681	−75.123	102.372	1.00	48.22	A	O
ATOM	1052	N	ARG	A	255	247.587	−75.802	102.793	1.00	42.94	A	N
ATOM	1053	CA	ARG	A	255	247.899	−76.642	103.946	1.00	38.93	A	C
ATOM	1054	CB	ARG	A	255	248.829	−77.796	103.512	1.00	44.03	A	C
ATOM	1055	CG	ARG	A	255	248.460	−78.369	102.124	1.00	46.01	A	C
ATOM	1056	CD	ARG	A	255	249.154	−79.689	101.884	1.00	54.38	A	C
ATOM	1057	NE	ARG	A	255	250.581	−79.648	102.175	1.00	53.55	A	N
ATOM	1058	CZ	ARG	A	255	251.402	−80.673	102.012	1.00	53.89	A	C
ATOM	1059	NH1	ARG	A	255	250.938	−81.808	101.562	1.00	52.04	A	N
ATOM	1060	NH2	ARG	A	255	252.679	−80.560	102.313	1.00	55.38	A	N
ATOM	1061	C	ARG	A	255	248.477	−75.929	105.145	1.00	37.93	A	C
ATOM	1062	O	ARG	A	255	248.891	−76.588	106.101	1.00	37.60	A	O
ATOM	1063	N	ASP	A	256	248.541	−74.598	105.096	1.00	40.81	A	N
ATOM	1064	CA	ASP	A	256	249.090	−73.852	106.231	1.00	41.86	A	C
ATOM	1065	CB	ASP	A	256	250.578	−73.685	106.031	1.00	38.62	A	C
ATOM	1066	CG	ASP	A	256	251.299	−73.245	107.284	1.00	42.25	A	C
ATOM	1067	OD1	ASP	A	256	250.822	−73.586	108.373	1.00	44.21	A	O
ATOM	1068	OD2	ASP	A	256	252.367	−72.594	107.177	1.00	39.16	A	O
ATOM	1069	C	ASP	A	256	248.415	−72.491	106.390	1.00	45.37	A	C
ATOM	1070	O	ASP	A	256	249.065	−71.464	106.563	1.00	52.63	A	O
ATOM	1071	N	ILE	A	257	247.092	−72.503	106.340	1.00	49.04	A	N
ATOM	1072	CA	ILE	A	257	246.307	−71.289	106.456	1.00	56.39	A	C
ATOM	1073	CB	ILE	A	257	244.939	−71.461	105.776	1.00	52.32	A	C
ATOM	1074	CG2	ILE	A	257	244.163	−70.205	105.893	1.00	55.85	A	C
ATOM	1075	CG1	ILE	A	257	245.143	−71.785	104.305	1.00	60.94	A	C
ATOM	1076	CD1	ILE	A	257	243.873	−72.064	103.557	1.00	73.36	A	C
ATOM	1077	C	ILE	A	257	246.097	−70.940	107.922	1.00	54.79	A	C
ATOM	1078	O	ILE	A	257	245.502	−71.720	108.659	1.00	61.06	A	O
ATOM	1079	N	LYS	A	258	246.594	−69.781	108.345	1.00	50.33	A	N
ATOM	1080	CA	LYS	A	258	246.428	−69.356	109.719	1.00	46.70	A	C
ATOM	1081	CB	LYS	A	258	247.273	−70.220	110.648	1.00	41.61	A	C
ATOM	1082	CG	LYS	A	258	248.687	−70.371	110.232	1.00	49.22	A	C
ATOM	1083	CD	LYS	A	258	249.425	−71.326	111.200	1.00	42.38	A	C
ATOM	1084	CE	LYS	A	258	250.826	−71.627	110.697	1.00	51.66	A	C
ATOM	1085	NZ	LYS	A	258	251.488	−72.718	111.456	1.00	40.89	A	N
ATOM	1086	C	LYS	A	258	246.756	−67.876	109.860	1.00	45.25	A	C
ATOM	1087	O	LYS	A	258	247.504	−67.337	109.042	1.00	41.75	A	O
ATOM	1088	N	PRO	A	259	246.189	−67.209	110.898	1.00	38.54	A	N
ATOM	1089	CD	PRO	A	259	245.436	−67.848	111.999	1.00	30.99	A	C
ATOM	1090	CA	PRO	A	259	246.389	−65.786	111.172	1.00	33.18	A	C
ATOM	1091	CB	PRO	A	259	246.034	−65.680	112.643	1.00	36.45	A	C
ATOM	1092	CG	PRO	A	259	244.915	−66.649	112.762	1.00	29.46	A	C
ATOM	1093	C	PRO	A	259	247.783	−65.250	110.858	1.00	39.75	A	C
ATOM	1094	O	PRO	A	259	247.899	−64.163	110.345	1.00	46.84	A	O
ATOM	1095	N	GLU	A	260	248.836	−65.999	111.177	1.00	43.95	A	N
ATOM	1096	CA	GLU	A	260	250.227	−65.591	110.916	1.00	44.86	A	C
ATOM	1097	CB	GLU	A	260	251.224	−66.603	111.505	1.00	50.78	A	C
ATOM	1098	CG	GLU	A	260	251.039	−66.922	112.948	1.00	65.67	A	C
ATOM	1099	CD	GLU	A	260	249.918	−67.897	113.213	1.00	69.34	A	C
ATOM	1100	OE1	GLU	A	260	248.727	−67.499	113.338	1.00	69.34	A	O
ATOM	1101	OE2	GLU	A	260	250.264	−69.089	113.299	1.00	80.21	A	O
ATOM	1102	C	GLU	A	260	250.514	−65.476	109.430	1.00	39.11	A	C
ATOM	1103	O	GLU	A	260	251.197	−64.554	109.027	1.00	44.76	A	O
ATOM	1104	N	ASN	A	261	250.029	−66.425	108.622	1.00	40.15	A	N
ATOM	1105	CA	ASN	A	261	250.246	−66.396	107.162	1.00	38.92	A	C
ATOM	1106	CB	ASN	A	261	250.401	−67.817	106.608	1.00	36.39	A	C
ATOM	1107	CG	ASN	A	261	251.539	−68.579	107.266	1.00	36.54	A	C
ATOM	1108	OD1	ASN	A	261	252.609	−68.006	107.462	1.00	41.73	A	O
ATOM	1109	ND2	ASN	A	261	251.317	−69.831	107.578	1.00	30.81	A	N
ATOM	1110	C	ASN	A	261	249.151	−65.638	106.361	1.00	38.95	A	C
ATOM	1111	O	ASN	A	261	249.142	−65.652	105.149	1.00	40.40	A	O
ATOM	1112	N	LEU	A	262	248.245	−64.953	107.046	1.00	42.51	A	N

ATOM	1113	CA	LEU	A	262	247.197	-64.169	106.386	1.00	42.29	A	C
ATOM	1114	CB	LEU	A	262	245.800	-64.450	106.967	1.00	36.57	A	C
ATOM	1115	CG	LEU	A	262	245.209	-65.819	106.657	1.00	37.41	A	C
ATOM	1116	CD1	LEU	A	262	243.773	-65.817	107.071	1.00	33.79	A	C
ATOM	1117	CD2	LEU	A	262	245.324	-66.152	105.193	1.00	39.29	A	C
ATOM	1118	C	LEU	A	262	247.548	-62.703	106.582	1.00	41.70	A	C
ATOM	1119	O	LEU	A	262	247.543	-62.205	107.717	1.00	44.29	A	O
ATOM	1120	N	LEU	A	263	247.857	-62.021	105.473	1.00	38.70	A	N
ATOM	1121	CA	LEU	A	263	248.238	-60.610	105.505	1.00	26.99	A	C
ATOM	1122	CB	LEU	A	263	249.475	-60.392	104.679	1.00	36.05	A	C
ATOM	1123	CG	LEU	A	263	250.658	-61.333	104.917	1.00	31.41	A	C
ATOM	1124	CD1	LEU	A	263	251.820	-60.991	103.978	1.00	33.22	A	C
ATOM	1125	CD2	LEU	A	263	251.081	-61.269	106.325	1.00	29.25	A	C
ATOM	1126	C	LEU	A	263	247.144	-59.677	105.013	1.00	35.80	A	C
ATOM	1127	O	LEU	A	263	246.220	-60.100	104.304	1.00	32.87	A	O
ATOM	1128	N	LEU	A	264	247.245	-58.408	105.410	1.00	31.98	A	N
ATOM	1129	CA	LEU	A	264	246.246	-57.428	105.041	1.00	33.35	A	C
ATOM	1130	CB	LEU	A	264	245.703	-56.729	106.303	1.00	31.72	A	C
ATOM	1131	CG	LEU	A	264	244.971	-57.619	107.303	1.00	28.92	A	C
ATOM	1132	CD1	LEU	A	264	244.728	-56.820	108.620	1.00	24.69	A	C
ATOM	1133	CD2	LEU	A	264	243.644	-58.095	106.660	1.00	26.84	A	C
ATOM	1134	C	LEU	A	264	246.884	-56.419	104.110	1.00	35.86	A	C
ATOM	1135	O	LEU	A	264	247.974	-55.944	104.368	1.00	40.12	A	O
ATOM	1136	N	GLY	A	265	246.188	-56.100	103.026	1.00	36.89	A	N
ATOM	1137	CA	GLY	A	265	246.674	-55.133	102.045	1.00	43.31	A	C
ATOM	1138	C	GLY	A	265	246.399	-53.673	102.351	1.00	43.89	A	C
ATOM	1139	O	GLY	A	265	245.889	-53.350	103.401	1.00	48.54	A	O
ATOM	1140	N	SER	A	266	246.742	-52.796	101.422	1.00	48.23	A	N
ATOM	1141	CA	SER	A	266	246.567	-51.364	101.591	1.00	49.09	A	C
ATOM	1142	CB	SER	A	266	246.936	-50.647	100.304	1.00	51.41	A	C
ATOM	1143	OG	SER	A	266	246.057	-51.012	99.237	1.00	64.31	A	O
ATOM	1144	C	SER	A	266	245.138	-51.019	101.970	1.00	51.39	A	C
ATOM	1145	O	SER	A	266	244.915	-50.247	102.883	1.00	54.83	A	O
ATOM	1146	N	ALA	A	267	244.162	-51.588	101.271	1.00	54.20	A	N
ATOM	1147	CA	ALA	A	267	242.749	-51.323	101.577	1.00	47.57	A	C
ATOM	1148	CB	ALA	A	267	241.921	-51.394	100.320	1.00	47.18	A	C
ATOM	1149	C	ALA	A	267	242.203	-52.330	102.595	1.00	48.50	A	C
ATOM	1150	O	ALA	A	267	241.010	-52.582	102.620	1.00	50.25	A	O
ATOM	1151	N	GLY	A	268	243.084	-52.913	103.410	1.00	45.91	A	N
ATOM	1152	CA	GLY	A	268	242.665	-53.860	104.420	1.00	38.28	A	C
ATOM	1153	C	GLY	A	268	242.192	-55.187	103.868	1.00	42.82	A	C
ATOM	1154	O	GLY	A	268	241.652	-56.003	104.639	1.00	43.08	A	O
ATOM	1155	N	GLU	A	269	242.396	-55.431	102.569	1.00	42.29	A	N
ATOM	1156	CA	GLU	A	269	241.958	-56.697	101.992	1.00	40.12	A	C
ATOM	1157	CB	GLU	A	269	241.996	-56.635	100.480	1.00	44.93	A	C
ATOM	1158	CG	GLU	A	269	243.430	-56.655	99.871	1.00	51.34	A	C
ATOM	1159	CD	GLU	A	269	243.997	-55.261	99.657	1.00	57.16	A	C
ATOM	1160	OE1	GLU	A	269	244.081	-54.491	100.642	1.00	51.07	A	O
ATOM	1161	OE2	GLU	A	269	244.350	-54.945	98.493	1.00	61.02	A	O
ATOM	1162	C	GLU	A	269	242.872	-57.847	102.472	1.00	44.10	A	C
ATOM	1163	O	GLU	A	269	244.053	-57.652	102.807	1.00	43.32	A	O
ATOM	1164	N	LEU	A	270	242.331	-59.059	102.481	1.00	43.44	A	N
ATOM	1165	CA	LEU	A	270	243.076	-60.228	102.927	1.00	44.15	A	C
ATOM	1166	CB	LEU	A	270	242.102	-61.333	103.323	1.00	50.71	A	C
ATOM	1167	CG	LEU	A	270	242.624	-62.428	104.232	1.00	53.26	A	C
ATOM	1168	CD1	LEU	A	270	242.304	-62.033	105.661	1.00	60.78	A	C
ATOM	1169	CD2	LEU	A	270	241.999	-63.736	103.906	1.00	50.44	A	C
ATOM	1170	C	LEU	A	270	243.985	-60.731	101.813	1.00	44.35	A	C
ATOM	1171	O	LEU	A	270	243.728	-60.526	100.635	1.00	49.43	A	O
ATOM	1172	N	LYS	A	271	245.063	-61.398	102.188	1.00	40.19	A	N
ATOM	1173	CA	LYS	A	271	245.994	-61.946	101.211	1.00	31.70	A	C
ATOM	1174	CB	LYS	A	271	247.028	-60.897	100.819	1.00	32.47	A	C
ATOM	1175	CG	LYS	A	271	246.604	-59.930	99.753	1.00	31.86	A	C
ATOM	1176	CD	LYS	A	271	247.492	-58.692	99.731	1.00	35.87	A	C
ATOM	1177	CE	LYS	A	271	247.103	-57.715	98.619	1.00	42.09	A	C
ATOM	1178	NZ	LYS	A	271	247.551	-58.225	97.303	1.00	58.37	A	N
ATOM	1179	C	LYS	A	271	246.714	-63.148	101.820	1.00	41.22	A	C
ATOM	1180	O	LYS	A	271	247.433	-63.023	102.807	1.00	49.74	A	O
ATOM	1181	N	ILE	A	272	246.505	-64.322	101.249	1.00	39.27	A	N
ATOM	1182	CA	ILE	A	272	247.155	-65.524	101.741	1.00	34.76	A	C

ATOM	1183	CB	ILE	A	272	246.491	-66.758	101.150	1.00	44.34	A	C
ATOM	1184	CG2	ILE	A	272	246.821	-67.987	102.002	1.00	55.36	A	C
ATOM	1185	CG1	ILE	A	272	244.973	-66.577	101.161	1.00	50.03	A	C
ATOM	1186	CD1	ILE	A	272	244.215	-67.794	100.577	1.00	52.97	A	C
ATOM	1187	C	ILE	A	272	248.617	-65.530	101.319	1.00	41.49	A	C
ATOM	1188	O	ILE	A	272	248.918	-65.272	100.168	1.00	40.02	A	O
ATOM	1189	N	ALA	A	273	249.524	-65.832	102.243	1.00	39.46	A	N
ATOM	1190	CA	ALA	A	273	250.936	-65.861	101.931	1.00	38.71	A	C
ATOM	1191	CB	ALA	A	273	251.588	-64.617	102.514	1.00	40.33	A	C
ATOM	1192	C	ALA	A	273	251.592	-67.137	102.487	1.00	46.92	A	C
ATOM	1193	O	ALA	A	273	250.910	-68.063	102.901	1.00	49.16	A	O
ATOM	1194	N	ASP	A	274	252.923	-67.165	102.493	1.00	51.43	A	N
ATOM	1195	CA	ASP	A	274	253.703	-68.293	102.997	1.00	51.40	A	C
ATOM	1196	CB	ASP	A	274	253.686	-68.323	104.530	1.00	50.98	A	C
ATOM	1197	CG	ASP	A	274	254.601	-69.361	105.083	1.00	42.10	A	C
ATOM	1198	OD1	ASP	A	274	255.660	-69.637	104.516	1.00	54.26	A	O
ATOM	1199	OD2	ASP	A	274	254.299	-69.914	106.121	1.00	52.11	A	O
ATOM	1200	C	ASP	A	274	253.224	-69.618	102.433	1.00	51.38	A	C
ATOM	1201	O	ASP	A	274	252.572	-70.382	103.133	1.00	53.85	A	O
ATOM	1202	N	PHE	A	275	253.540	-69.863	101.159	1.00	53.60	A	N
ATOM	1203	CA	PHE	A	275	253.173	-71.097	100.476	1.00	46.97	A	C
ATOM	1204	CB	PHE	A	275	252.975	-70.871	98.973	1.00	42.90	A	C
ATOM	1205	CG	PHE	A	275	251.733	-70.169	98.636	1.00	45.54	A	C
ATOM	1206	CD1	PHE	A	275	251.527	-68.830	99.048	1.00	45.75	A	C
ATOM	1207	CD2	PHE	A	275	250.737	-70.843	97.917	1.00	41.77	A	C
ATOM	1208	CE1	PHE	A	275	250.305	-68.152	98.737	1.00	48.01	A	C
ATOM	1209	CE2	PHE	A	275	249.503	-70.195	97.591	1.00	46.76	A	C
ATOM	1210	CZ	PHE	A	275	249.279	-68.840	98.000	1.00	48.77	A	C
ATOM	1211	C	PHE	A	275	254.270	-72.149	100.678	1.00	43.41	A	C
ATOM	1212	O	PHE	A	275	254.496	-72.970	99.791	1.00	36.81	A	O
ATOM	1213	N	GLY	A	276	254.938	-72.109	101.843	1.00	42.93	A	N
ATOM	1214	CA	GLY	A	276	255.969	-73.079	102.214	1.00	37.83	A	C
ATOM	1215	C	GLY	A	276	255.471	-74.522	102.210	1.00	35.71	A	C
ATOM	1216	O	GLY	A	276	256.197	-75.412	101.834	1.00	45.98	A	O
ATOM	1217	N	TRP	A	277	254.227	-74.768	102.608	1.00	40.57	A	N
ATOM	1218	CA	TRP	A	277	253.676	-76.118	102.591	1.00	36.62	A	C
ATOM	1219	CB	TRP	A	277	252.882	-76.378	103.859	1.00	42.09	A	C
ATOM	1220	CG	TRP	A	277	253.751	-76.592	105.041	1.00	50.97	A	C
ATOM	1221	CD2	TRP	A	277	254.089	-77.854	105.629	1.00	58.62	A	C
ATOM	1222	CE2	TRP	A	277	254.960	-77.593	106.702	1.00	58.91	A	C
ATOM	1223	CE3	TRP	A	277	253.726	-79.182	105.360	1.00	59.93	A	C
ATOM	1224	CD1	TRP	A	277	254.420	-75.640	105.759	1.00	54.30	A	C
ATOM	1225	NE1	TRP	A	277	255.150	-76.235	106.758	1.00	59.86	A	N
ATOM	1226	CZ2	TRP	A	277	255.482	-78.610	107.501	1.00	61.19	A	C
ATOM	1227	CZ3	TRP	A	277	254.244	-80.188	106.162	1.00	61.29	A	C
ATOM	1228	CH2	TRP	A	277	255.108	-79.892	107.219	1.00	63.73	A	C
ATOM	1229	C	TRP	A	277	252.777	-76.364	101.408	1.00	35.74	A	C
ATOM	1230	O	TRP	A	277	252.212	-77.442	101.298	1.00	35.61	A	O
ATOM	1231	N	SER	A	278	252.636	-75.372	100.528	1.00	44.94	A	N
ATOM	1232	CA	SER	A	278	251.779	-75.474	99.336	1.00	46.77	A	C
ATOM	1233	CB	SER	A	278	251.916	-74.202	98.517	1.00	42.80	A	C
ATOM	1234	OG	SER	A	278	250.880	-74.139	97.565	1.00	54.88	A	O
ATOM	1235	C	SER	A	278	252.200	-76.703	98.464	1.00	50.47	A	C
ATOM	1236	O	SER	A	278	253.367	-77.084	98.378	1.00	54.17	A	O
ATOM	1237	N	VAL	A	279	251.246	-77.347	97.819	1.00	51.50	A	N
ATOM	1238	CA	VAL	A	279	251.566	-78.514	96.992	1.00	57.94	A	C
ATOM	1239	CB	VAL	A	279	251.588	-79.780	97.847	1.00	44.98	A	C
ATOM	1240	CG1	VAL	A	279	250.199	-80.321	97.997	1.00	43.31	A	C
ATOM	1241	CG2	VAL	A	279	252.491	-80.787	97.178	1.00	57.04	A	C
ATOM	1242	C	VAL	A	279	250.626	-78.680	95.765	1.00	59.15	A	C
ATOM	1243	O	VAL	A	279	249.430	-78.387	95.867	1.00	67.05	A	O
ATOM	1244	N	HIS	A	280	251.204	-79.094	94.615	1.00	63.81	A	N
ATOM	1245	CA	HIS	A	280	250.486	-79.252	93.335	1.00	67.43	A	C
ATOM	1246	CB	HIS	A	280	251.439	-79.066	92.122	1.00	66.79	A	C
ATOM	1247	CG	HIS	A	280	250.875	-78.185	91.056	1.00	72.05	A	C
ATOM	1248	CD2	HIS	A	280	250.729	-78.371	89.721	1.00	75.11	A	C
ATOM	1249	ND1	HIS	A	280	250.404	-76.921	91.326	1.00	73.34	A	N
ATOM	1250	CE1	HIS	A	280	249.997	-76.358	90.201	1.00	80.03	A	C
ATOM	1251	NE2	HIS	A	280	250.185	-77.217	89.213	1.00	83.14	A	N
ATOM	1252	C	HIS	A	280	249.968	-80.672	93.390	1.00	70.50	A	C

ATOM	1253	O	HIS	A	280	250.581	-81.589	92.745	1.00	82.51	A	O
ATOM	1254	N	ALA	A	281	248.772	-80.853	93.985	1.00	68.02	A	N
ATOM	1255	CA	ALA	A	281	248.427	-82.260	94.196	1.00	68.33	A	C
ATOM	1256	CB	ALA	A	281	249.603	-82.885	94.806	1.00	60.98	A	C
ATOM	1257	C	ALA	A	281	247.205	-82.754	95.016	1.00	68.64	A	C
ATOM	1258	O	ALA	A	281	246.292	-82.032	95.339	1.00	67.99	A	O
ATOM	1259	N	PRO	A	282	247.225	-84.034	95.373	1.00	70.43	A	N
ATOM	1260	CD	PRO	A	282	246.861	-84.236	93.943	1.00	64.78	A	C
ATOM	1261	CA	PRO	A	282	246.609	-85.171	96.058	1.00	67.06	A	C
ATOM	1262	CB	PRO	A	282	246.654	-86.295	95.053	1.00	67.65	A	C
ATOM	1263	CG	PRO	A	282	246.201	-85.826	93.934	1.00	63.34	A	C
ATOM	1264	C	PRO	A	282	247.893	-85.384	96.902	1.00	69.62	A	C
ATOM	1265	O	PRO	A	282	248.995	-85.628	96.346	1.00	80.00	A	O
ATOM	1266	N	SER	A	283	247.878	-85.322	98.204	1.00	65.02	A	N
ATOM	1267	CA	SER	A	283	249.163	-85.867	98.758	1.00	59.53	A	C
ATOM	1268	CB	SER	A	283	250.127	-84.498	98.799	1.00	55.46	A	C
ATOM	1269	OG	SER	A	283	250.750	-84.456	100.075	1.00	55.84	A	O
ATOM	1270	C	SER	A	283	249.259	-86.394	100.033	1.00	55.99	A	C
ATOM	1271	O	SER	A	283	248.283	-86.609	100.713	1.00	69.93	A	O
ATOM	1272	N	SER	A	284	250.462	-86.835	100.323	1.00	60.56	A	N
ATOM	1273	CA	SER	A	284	250.699	-87.467	101.588	1.00	63.49	A	C
ATOM	1274	CB	SER	A	284	251.416	-88.808	101.438	1.00	63.76	A	C
ATOM	1275	OG	SER	A	284	252.588	-88.697	100.633	1.00	77.24	A	O
ATOM	1276	C	SER	A	284	251.609	-86.432	102.280	1.00	63.54	A	C
ATOM	1277	O	SER	A	284	251.934	-85.336	101.744	1.00	57.98	A	O
ATOM	1278	N	ARG	A	285	251.999	-86.775	103.492	1.00	64.16	A	N
ATOM	1279	CA	ARG	A	285	252.823	-85.889	104.282	1.00	67.66	A	C
ATOM	1280	CB	ARG	A	285	252.738	-86.301	105.734	1.00	62.91	A	C
ATOM	1281	C	ARG	A	285	254.278	-85.923	103.806	1.00	68.61	A	C
ATOM	1282	O	ARG	A	285	254.612	-86.645	102.888	1.00	72.84	A	O
ATOM	1283	N	ARG	A	286	255.135	-85.146	104.466	1.00	71.24	A	N
ATOM	1284	CA	ARG	A	286	256.561	-85.059	104.163	1.00	75.06	A	C
ATOM	1285	CB	ARG	A	286	256.943	-83.563	104.008	1.00	73.44	A	C
ATOM	1286	CG	ARG	A	286	255.881	-82.698	103.382	1.00	71.75	A	C
ATOM	1287	CD	ARG	A	286	255.139	-83.449	102.361	1.00	72.37	A	C
ATOM	1288	NE	ARG	A	286	255.481	-82.999	101.030	1.00	72.92	A	N
ATOM	1289	CZ	ARG	A	286	254.690	-83.207	99.989	1.00	77.01	A	C
ATOM	1290	NH1	ARG	A	286	253.537	-83.858	100.174	1.00	80.80	A	N
ATOM	1291	NH2	ARG	A	286	255.024	-82.753	98.778	1.00	73.00	A	N
ATOM	1292	C	ARG	A	286	257.251	-85.649	105.339	1.00	79.18	A	C
ATOM	1293	O	ARG	A	286	258.525	-85.258	105.556	1.00	80.60	A	O
ATOM	1294	N	TPO	A	287	256.458	-86.471	106.097	1.00	82.59	A	N
ATOM	1295	CA	TPO	A	287	256.848	-87.091	107.376	1.00	81.36	A	C
ATOM	1296	CB	TPO	A	287	258.340	-87.583	107.506	1.00	85.77	A	C
ATOM	1297	CG2	TPO	A	287	258.788	-88.436	108.791	1.00	78.62	A	C
ATOM	1298	OG1	TPO	A	287	259.242	-87.965	106.406	1.00	96.25	A	O
ATOM	1299	P	TPO	A	287	259.671	-89.537	105.840	1.00	94.10	A	P
ATOM	1300	O1P	TPO	A	287	261.195	-89.889	106.372	1.00	105.80	A	O
ATOM	1301	O2P	TPO	A	287	259.793	-89.485	104.142	1.00	103.14	A	O
ATOM	1302	O3P	TPO	A	287	258.773	-90.552	106.786	1.00	103.19	A	O
ATOM	1303	C	TPO	A	287	257.020	-86.093	108.560	1.00	84.40	A	C
ATOM	1304	O	TPO	A	287	256.708	-86.453	109.760	1.00	82.15	A	O
ATOM	1305	N	TPO	A	288	257.164	-84.776	108.357	1.00	86.52	A	N
ATOM	1306	CA	TPO	A	288	257.256	-84.113	109.592	1.00	85.55	A	C
ATOM	1307	CB	TPO	A	288	258.562	-83.387	109.678	1.00	87.59	A	C
ATOM	1308	CG2	TPO	A	288	259.265	-83.063	111.066	1.00	82.26	A	C
ATOM	1309	OG1	TPO	A	288	259.687	-83.759	108.739	1.00	93.55	A	O
ATOM	1310	P	TPO	A	288	261.048	-84.822	108.978	1.00	87.77	A	P
ATOM	1311	O1P	TPO	A	288	262.388	-83.892	109.216	1.00	91.79	A	O
ATOM	1312	O2P	TPO	A	288	261.352	-85.656	107.542	1.00	93.35	A	O
ATOM	1313	O3P	TPO	A	288	260.797	-85.456	110.481	1.00	95.16	A	O
ATOM	1314	C	TPO	A	288	256.287	-82.985	109.892	1.00	89.28	A	C
ATOM	1315	O	TPO	A	288	255.311	-82.594	109.048	1.00	86.14	A	O
ATOM	1316	N	LEU	A	289	256.536	-82.411	111.055	1.00	87.01	A	N
ATOM	1317	CA	LEU	A	289	255.511	-81.523	111.435	1.00	88.25	A	C
ATOM	1318	CB	LEU	A	289	254.346	-82.345	111.883	1.00	78.91	A	C
ATOM	1319	C	LEU	A	289	255.852	-80.565	112.436	1.00	87.34	A	C
ATOM	1320	O	LEU	A	289	256.026	-80.894	113.634	1.00	90.27	A	O
ATOM	1321	N	CYS	A	290	256.101	-79.389	111.914	1.00	89.51	A	N
ATOM	1322	CA	CYS	A	290	256.347	-78.354	112.824	1.00	89.73	A	C

ATOM	1323	CB	CYS	A	290	257.299	-77.405	112.324	1.00	80.05	A	C
ATOM	1324	C	CYS	A	290	254.931	-77.891	112.490	1.00	90.22	A	C
ATOM	1325	O	CYS	A	290	254.405	-77.933	111.292	1.00	91.11	A	O
ATOM	1326	N	GLY	A	291	254.262	-77.496	113.541	1.00	90.88	A	N
ATOM	1327	CA	GLY	A	291	252.946	-77.026	113.294	1.00	84.36	A	C
ATOM	1328	C	GLY	A	291	252.214	-77.175	114.559	1.00	80.67	A	C
ATOM	1329	O	GLY	A	291	252.395	-78.093	115.381	1.00	72.19	A	O
ATOM	1330	N	THR	A	292	251.411	-76.152	114.668	1.00	72.87	A	N
ATOM	1331	CA	THR	A	292	250.543	-75.923	115.732	1.00	68.66	A	C
ATOM	1332	CB	THR	A	292	250.229	-74.450	115.788	1.00	64.26	A	C
ATOM	1333	OG1	THR	A	292	249.385	-74.238	116.907	1.00	62.83	A	O
ATOM	1334	CG2	THR	A	292	249.511	-73.967	114.478	1.00	66.76	A	C
ATOM	1335	C	THR	A	292	249.401	-76.698	115.093	1.00	69.67	A	C
ATOM	1336	O	THR	A	292	248.736	-76.230	114.162	1.00	81.32	A	O
ATOM	1337	N	LEU	A	293	249.162	-77.905	115.545	1.00	65.76	A	N
ATOM	1338	CA	LEU	A	293	248.076	-78.633	114.929	1.00	57.85	A	C
ATOM	1339	CB	LEU	A	293	247.775	-79.863	115.741	1.00	58.26	A	C
ATOM	1340	CG	LEU	A	293	249.007	-80.649	116.175	1.00	59.75	A	C
ATOM	1341	CD1	LEU	A	293	248.607	-81.606	117.246	1.00	56.85	A	C
ATOM	1342	CD2	LEU	A	293	249.618	-81.397	114.982	1.00	55.33	A	C
ATOM	1343	C	LEU	A	293	246.812	-77.819	114.737	1.00	54.37	A	C
ATOM	1344	O	LEU	A	293	246.215	-77.930	113.686	1.00	59.11	A	O
ATOM	1345	N	ASP	A	294	246.467	-76.947	115.687	1.00	45.72	A	N
ATOM	1346	CA	ASP	A	294	245.241	-76.166	115.622	1.00	46.04	A	C
ATOM	1347	CB	ASP	A	294	245.471	-74.762	116.195	1.00	47.18	A	C
ATOM	1348	CG	ASP	A	294	245.754	-74.782	117.713	1.00	53.87	A	C
ATOM	1349	OD1	ASP	A	294	244.938	-75.399	118.452	1.00	53.07	A	O
ATOM	1350	OD2	ASP	A	294	246.772	-74.166	118.153	1.00	44.18	A	O
ATOM	1351	C	ASP	A	294	244.490	-76.064	114.323	1.00	42.63	A	C
ATOM	1352	O	ASP	A	294	243.322	-76.434	114.275	1.00	40.46	A	O
ATOM	1353	N	TYR	A	295	245.168	-75.589	113.280	1.00	41.51	A	N
ATOM	1354	CA	TYR	A	295	244.534	-75.404	111.983	1.00	42.29	A	C
ATOM	1355	CB	TYR	A	295	245.046	-74.116	111.335	1.00	42.13	A	C
ATOM	1356	CG	TYR	A	295	245.120	-72.945	112.263	1.00	41.89	A	C
ATOM	1357	CD1	TYR	A	295	246.211	-72.793	113.099	1.00	47.14	A	C
ATOM	1358	CE1	TYR	A	295	246.304	-71.731	113.973	1.00	47.33	A	C
ATOM	1359	CD2	TYR	A	295	244.117	-71.995	112.309	1.00	36.13	A	C
ATOM	1360	CE2	TYR	A	295	244.212	-70.914	113.162	1.00	43.23	A	C
ATOM	1361	CZ	TYR	A	295	245.302	-70.785	113.996	1.00	47.19	A	C
ATOM	1362	OH	TYR	A	295	245.414	-69.690	114.838	1.00	57.32	A	O
ATOM	1363	C	TYR	A	295	244.655	-76.563	110.985	1.00	41.49	A	C
ATOM	1364	O	TYR	A	295	244.224	-76.467	109.822	1.00	43.26	A	O
ATOM	1365	N	LEU	A	296	245.228	-77.668	111.448	1.00	39.99	A	N
ATOM	1366	CA	LEU	A	296	245.411	-78.868	110.607	1.00	51.39	A	C
ATOM	1367	CB	LEU	A	296	246.671	-79.611	111.016	1.00	53.81	A	C
ATOM	1368	CG	LEU	A	296	248.033	-78.987	110.652	1.00	57.41	A	C
ATOM	1369	CD1	LEU	A	296	249.165	-79.934	111.025	1.00	51.84	A	C
ATOM	1370	CD2	LEU	A	296	248.040	-78.694	109.161	1.00	50.59	A	C
ATOM	1371	C	LEU	A	296	244.205	-79.803	110.651	1.00	48.90	A	C
ATOM	1372	O	LEU	A	296	243.511	-79.890	111.645	1.00	60.00	A	O
ATOM	1373	N	PRO	A	297	243.914	-80.480	109.550	1.00	49.64	A	N
ATOM	1374	CD	PRO	A	297	244.428	-80.152	108.220	1.00	48.93	A	C
ATOM	1375	CA	PRO	A	297	242.782	-81.390	109.447	1.00	53.31	A	C
ATOM	1376	CB	PRO	A	297	242.450	-81.327	107.951	1.00	50.04	A	C
ATOM	1377	CG	PRO	A	297	243.782	-81.194	107.367	1.00	48.93	A	C
ATOM	1378	C	PRO	A	297	243.137	-82.762	109.966	1.00	57.23	A	C
ATOM	1379	O	PRO	A	297	244.303	-83.109	110.051	1.00	56.18	A	O
ATOM	1380	N	PRO	A	298	242.135	-83.562	110.334	1.00	59.72	A	N
ATOM	1381	CD	PRO	A	298	240.704	-83.237	110.308	1.00	64.33	A	C
ATOM	1382	CA	PRO	A	298	242.340	-84.917	110.853	1.00	62.61	A	C
ATOM	1383	CB	PRO	A	298	240.929	-85.463	110.920	1.00	65.22	A	C
ATOM	1384	CG	PRO	A	298	240.143	-84.267	111.288	1.00	64.88	A	C
ATOM	1385	C	PRO	A	298	243.245	-85.779	109.963	1.00	64.63	A	C
ATOM	1386	O	PRO	A	298	244.184	-86.426	110.459	1.00	56.23	A	O
ATOM	1387	N	GLU	A	299	242.975	-85.781	108.656	1.00	60.03	A	N
ATOM	1388	CA	GLU	A	299	243.778	-86.574	107.711	1.00	58.56	A	C
ATOM	1389	CB	GLU	A	299	243.303	-86.339	106.265	1.00	57.01	A	C
ATOM	1390	CG	GLU	A	299	243.028	-84.864	105.914	1.00	52.94	A	C
ATOM	1391	CD	GLU	A	299	241.596	-84.474	106.109	1.00	48.80	A	C
ATOM	1392	OE1	GLU	A	299	241.003	-84.897	107.126	1.00	47.74	A	O

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ATOM   1393  OE2 GLU A 299     241.075 -83.733 105.248  1.00 48.97      A   O
ATOM   1394  C   GLU A 299     245.279 -86.287 107.819  1.00 62.41      A   C
ATOM   1395  O   GLU A 299     246.094 -87.208 108.002  1.00 64.05      A   O
ATOM   1396  N   MET A 300     245.648 -85.014 107.709  1.00 63.79      A   N
ATOM   1397  CA  MET A 300     247.051 -84.637 107.816  1.00 63.71      A   C
ATOM   1398  CB  MET A 300     247.225 -83.145 107.597  1.00 67.63      A   C
ATOM   1399  CG  MET A 300     247.374 -82.763 106.145  1.00 66.70      A   C
ATOM   1400  SD  MET A 300     248.052 -81.127 106.017  1.00 71.20      A   S
ATOM   1401  CE  MET A 300     249.750 -81.388 106.380  1.00 69.10      A   C
ATOM   1402  C   MET A 300     247.661 -85.000 109.174  1.00 66.02      A   C
ATOM   1403  O   MET A 300     248.702 -85.664 109.256  1.00 70.05      A   O
ATOM   1404  N   ILE A 301     247.025 -84.550 110.244  1.00 67.53      A   N
ATOM   1405  CA  ILE A 301     247.504 -84.829 111.596  1.00 68.63      A   C
ATOM   1406  CB  ILE A 301     246.490 -84.278 112.606  1.00 67.77      A   C
ATOM   1407  CG2 ILE A 301     246.782 -84.750 113.995  1.00 61.97      A   C
ATOM   1408  CG1 ILE A 301     246.505 -82.750 112.495  1.00 67.98      A   C
ATOM   1409  CD1 ILE A 301     245.392 -82.041 113.240  1.00 76.63      A   C
ATOM   1410  C   ILE A 301     247.769 -86.319 111.812  1.00 73.57      A   C
ATOM   1411  O   ILE A 301     248.662 -86.676 112.588  1.00 78.37      A   O
ATOM   1412  N   GLU A 302     247.034 -87.184 111.092  1.00 75.18      A   N
ATOM   1413  CA  GLU A 302     247.212 -88.639 111.215  1.00 74.73      A   C
ATOM   1414  CB  GLU A 302     245.845 -89.306 111.428  1.00 70.49      A   C
ATOM   1415  CG  GLU A 302     245.378 -89.254 112.936  1.00 78.38      A   C
ATOM   1416  CD  GLU A 302     243.861 -89.396 113.127  1.00 79.55      A   C
ATOM   1417  OE1 GLU A 302     243.188 -90.062 112.281  1.00 80.35      A   O
ATOM   1418  OE2 GLU A 302     243.360 -88.836 114.140  1.00 87.62      A   O
ATOM   1419  C   GLU A 302     248.026 -89.290 110.065  1.00 75.98      A   C
ATOM   1420  O   GLU A 302     248.411 -90.458 110.160  1.00 81.76      A   O
ATOM   1421  N   GLY A 303     248.339 -88.531 109.006  1.00 78.40      A   N
ATOM   1422  CA  GLY A 303     249.160 -89.053 107.912  1.00 72.91      A   C
ATOM   1423  C   GLY A 303     248.566 -89.374 106.552  1.00 72.79      A   C
ATOM   1424  O   GLY A 303     249.237 -89.368 105.513  1.00 76.85      A   O
ATOM   1425  N   ARG A 304     247.286 -89.679 106.549  1.00 67.34      A   N
ATOM   1426  CA  ARG A 304     246.623 -90.043 105.300  1.00 63.57      A   C
ATOM   1427  CB  ARG A 304     245.098 -90.120 105.461  1.00 62.11      A   C
ATOM   1428  CG  ARG A 304     244.623 -91.200 106.414  1.00 63.49      A   C
ATOM   1429  CD  ARG A 304     243.198 -90.950 106.857  1.00 70.18      A   C
ATOM   1430  NE  ARG A 304     243.087 -89.787 107.759  1.00 79.24      A   N
ATOM   1431  CZ  ARG A 304     242.896 -89.857 109.080  1.00 78.33      A   C
ATOM   1432  NH1 ARG A 304     242.788 -91.031 109.665  1.00 78.68      A   N
ATOM   1433  NH2 ARG A 304     242.819 -88.757 109.821  1.00 83.87      A   N
ATOM   1434  C   ARG A 304     246.882 -89.200 104.087  1.00 60.49      A   C
ATOM   1435  O   ARG A 304     247.550 -88.195 104.122  1.00 65.51      A   O
ATOM   1436  N   MET A 305     246.278 -89.661 103.013  1.00 61.50      A   N
ATOM   1437  CA  MET A 305     246.335 -89.084 101.698  1.00 65.46      A   C
ATOM   1438  CB  MET A 305     246.041 -90.197 100.663  1.00 63.39      A   C
ATOM   1439  C   MET A 305     245.233 -88.042 101.699  1.00 69.37      A   C
ATOM   1440  O   MET A 305     244.036 -88.349 101.691  1.00 78.96      A   O
ATOM   1441  N   HIS A 306     245.671 -86.802 101.710  1.00 69.56      A   N
ATOM   1442  CA  HIS A 306     244.790 -85.674 101.706  1.00 64.25      A   C
ATOM   1443  CB  HIS A 306     245.247 -84.657 102.735  1.00 64.47      A   C
ATOM   1444  CG  HIS A 306     246.674 -84.276 102.611  1.00 58.72      A   C
ATOM   1445  CD2 HIS A 306     247.253 -83.167 102.099  1.00 56.35      A   C
ATOM   1446  ND1 HIS A 306     247.691 -85.072 103.092  1.00 58.38      A   N
ATOM   1447  CE1 HIS A 306     248.841 -84.461 102.883  1.00 55.77      A   C
ATOM   1448  NE2 HIS A 306     248.602 -83.307 102.284  1.00 54.24      A   N
ATOM   1449  C   HIS A 306     244.657 -85.001 100.363  1.00 64.13      A   C
ATOM   1450  O   HIS A 306     245.469 -85.186  99.467  1.00 61.51      A   O
ATOM   1451  N   ASP A 307     243.667 -84.122 100.305  1.00 66.29      A   N
ATOM   1452  CA  ASP A 307     243.316 -83.353  99.117  1.00 67.53      A   C
ATOM   1453  CB  ASP A 307     241.988 -83.886  98.618  1.00 76.36      A   C
ATOM   1454  CG  ASP A 307     241.022 -84.130  99.789  1.00 82.91      A   C
ATOM   1455  OD1 ASP A 307     240.938 -83.232 100.665  1.00 87.78      A   O
ATOM   1456  OD2 ASP A 307     240.376 -85.208  99.863  1.00 84.54      A   O
ATOM   1457  C   ASP A 307     243.130 -81.873  99.495  1.00 62.06      A   C
ATOM   1458  O   ASP A 307     243.430 -81.435 100.603  1.00 62.07      A   O
ATOM   1459  N   GLU A 308     242.537 -81.150  98.566  1.00 56.29      A   N
ATOM   1460  CA  GLU A 308     242.256 -79.740  98.709  1.00 59.89      A   C
ATOM   1461  CB  GLU A 308     241.830 -79.236  97.325  1.00 58.22      A   C
ATOM   1462  CG  GLU A 308     241.947 -80.428  96.353  1.00 63.76      A   C
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ATOM	1463	CD	GLU A 308	241.729	-80.087	94.898	1.00	66.66	A	C
ATOM	1464	OE1	GLU A 308	242.570	-79.367	94.305	1.00	69.11	A	O
ATOM	1465	OE2	GLU A 308	240.722	-80.565	94.330	1.00	69.49	A	O
ATOM	1466	C	GLU A 308	241.201	-79.444	99.802	1.00	56.96	A	C
ATOM	1467	O	GLU A 308	241.003	-78.286	100.226	1.00	57.79	A	O
ATOM	1468	N	LYS A 309	240.558	-80.495	100.296	1.00	54.61	A	N
ATOM	1469	CA	LYS A 309	239.526	-80.332	101.317	1.00	54.70	A	C
ATOM	1470	CB	LYS A 309	238.697	-81.615	101.449	1.00	46.40	A	C
ATOM	1471	CG	LYS A 309	237.740	-81.859	100.300	1.00	53.44	A	C
ATOM	1472	CD	LYS A 309	236.674	-80.778	100.253	1.00	58.61	A	C
ATOM	1473	CE	LYS A 309	235.600	-81.071	99.214	1.00	60.43	A	C
ATOM	1474	NZ	LYS A 309	234.524	-80.026	99.209	1.00	60.76	A	N
ATOM	1475	C	LYS A 309	240.111	-79.967	102.668	1.00	54.64	A	C
ATOM	1476	O	LYS A 309	239.366	-79.724	103.618	1.00	66.35	A	O
ATOM	1477	N	VAL A 310	241.439	-79.941	102.770	1.00	57.91	A	N
ATOM	1478	CA	VAL A 310	242.086	-79.593	104.039	1.00	53.66	A	C
ATOM	1479	CB	VAL A 310	243.573	-79.974	104.058	1.00	52.18	A	C
ATOM	1480	CG1	VAL A 310	243.749	-81.375	103.528	1.00	54.98	A	C
ATOM	1481	CG2	VAL A 310	244.347	-79.010	103.252	1.00	55.72	A	C
ATOM	1482	C	VAL A 310	241.957	-78.091	104.263	1.00	53.64	A	C
ATOM	1483	O	VAL A 310	241.771	-77.638	105.404	1.00	47.54	A	O
ATOM	1484	N	ASP A 311	242.008	-77.332	103.168	1.00	50.01	A	N
ATOM	1485	CA	ASP A 311	241.881	-75.889	103.255	1.00	57.45	A	C
ATOM	1486	CB	ASP A 311	242.275	-75.232	101.925	1.00	56.10	A	C
ATOM	1487	CG	ASP A 311	243.756	-75.367	101.624	1.00	55.84	A	C
ATOM	1488	OD1	ASP A 311	244.585	-75.238	102.553	1.00	49.03	A	O
ATOM	1489	OD2	ASP A 311	244.085	-75.597	100.453	1.00	54.46	A	O
ATOM	1490	C	ASP A 311	240.454	-75.467	103.667	1.00	59.07	A	C
ATOM	1491	O	ASP A 311	240.258	-74.365	104.208	1.00	69.75	A	O
ATOM	1492	N	LEU A 312	239.471	-76.343	103.445	1.00	56.37	A	N
ATOM	1493	CA	LEU A 312	238.117	-76.031	103.815	1.00	45.08	A	C
ATOM	1494	CB	LEU A 312	237.135	-76.975	103.126	1.00	46.93	A	C
ATOM	1495	CG	LEU A 312	236.719	-76.481	101.746	1.00	45.65	A	C
ATOM	1496	CD1	LEU A 312	236.262	-77.698	100.966	1.00	57.08	A	C
ATOM	1497	CD2	LEU A 312	235.607	-75.431	101.878	1.00	42.14	A	C
ATOM	1498	C	LEU A 312	238.066	-76.204	105.309	1.00	42.72	A	C
ATOM	1499	O	LEU A 312	237.357	-75.451	105.986	1.00	41.50	A	O
ATOM	1500	N	TRP A 313	238.778	-77.211	105.814	1.00	35.13	A	N
ATOM	1501	CA	TRP A 313	238.818	-77.454	107.257	1.00	42.05	A	C
ATOM	1502	CB	TRP A 313	239.630	-78.718	107.532	1.00	37.59	A	C
ATOM	1503	CG	TRP A 313	239.903	-78.960	108.973	1.00	37.21	A	C
ATOM	1504	CD2	TRP A 313	239.169	-79.815	109.859	1.00	38.09	A	C
ATOM	1505	CE2	TRP A 313	239.786	-79.742	111.133	1.00	40.55	A	C
ATOM	1506	CE3	TRP A 313	238.050	-80.627	109.706	1.00	42.38	A	C
ATOM	1507	CD1	TRP A 313	240.895	-78.418	109.716	1.00	40.67	A	C
ATOM	1508	NE1	TRP A 313	240.843	-78.885	111.022	1.00	36.83	A	N
ATOM	1509	CZ2	TRP A 313	239.325	-80.470	112.237	1.00	41.12	A	C
ATOM	1510	CZ3	TRP A 313	237.591	-81.353	110.817	1.00	40.98	A	C
ATOM	1511	CH2	TRP A 313	238.220	-81.265	112.052	1.00	42.79	A	C
ATOM	1512	C	TRP A 313	239.448	-76.259	108.009	1.00	45.03	A	C
ATOM	1513	O	TRP A 313	238.971	-75.813	109.044	1.00	49.94	A	O
ATOM	1514	N	SER A 314	240.543	-75.748	107.477	1.00	46.02	A	N
ATOM	1515	CA	SER A 314	241.220	-74.624	108.087	1.00	41.93	A	C
ATOM	1516	CB	SER A 314	242.523	-74.354	107.341	1.00	44.32	A	C
ATOM	1517	OG	SER A 314	243.333	-75.505	107.387	1.00	38.93	A	O
ATOM	1518	C	SER A 314	240.338	-73.392	108.062	1.00	39.99	A	C
ATOM	1519	O	SER A 314	240.328	-72.596	109.011	1.00	45.37	A	O
ATOM	1520	N	LEU A 315	239.616	-73.226	106.965	1.00	35.87	A	N
ATOM	1521	CA	LEU A 315	238.704	-72.091	106.805	1.00	35.10	A	C
ATOM	1522	CB	LEU A 315	238.115	-72.091	105.390	1.00	34.40	A	C
ATOM	1523	CG	LEU A 315	237.307	-70.872	104.991	1.00	41.64	A	C
ATOM	1524	CD1	LEU A 315	238.136	-69.564	105.204	1.00	42.79	A	C
ATOM	1525	CD2	LEU A 315	236.927	-71.022	103.523	1.00	40.03	A	C
ATOM	1526	C	LEU A 315	237.569	-72.154	107.851	1.00	38.86	A	C
ATOM	1527	O	LEU A 315	236.854	-71.200	108.035	1.00	42.90	A	O
ATOM	1528	N	GLY A 316	237.421	-73.301	108.515	1.00	40.90	A	N
ATOM	1529	CA	GLY A 316	236.420	-73.475	109.540	1.00	29.38	A	C
ATOM	1530	C	GLY A 316	237.051	-73.072	110.863	1.00	38.31	A	C
ATOM	1531	O	GLY A 316	236.444	-72.317	111.644	1.00	44.99	A	O
ATOM	1532	N	VAL A 317	238.259	-73.578	111.126	1.00	34.77	A	N

ATOM	1533	CA	VAL	A	317	238.980	-73.253	112.343	1.00	38.52	A	C
ATOM	1534	CB	VAL	A	317	240.378	-73.903	112.348	1.00	39.35	A	C
ATOM	1535	CG1	VAL	A	317	241.200	-73.322	113.465	1.00	39.07	A	C
ATOM	1536	CG2	VAL	A	317	240.268	-75.403	112.500	1.00	36.59	A	C
ATOM	1537	C	VAL	A	317	239.145	-71.743	112.382	1.00	39.43	A	C
ATOM	1538	O	VAL	A	317	238.923	-71.092	113.421	1.00	39.97	A	O
ATOM	1539	N	LEU	A	318	239.517	-71.195	111.226	1.00	35.94	A	N
ATOM	1540	CA	LEU	A	318	239.728	-69.769	111.107	1.00	35.49	A	C
ATOM	1541	CB	LEU	A	318	240.217	-69.443	109.701	1.00	34.72	A	C
ATOM	1542	CG	LEU	A	318	241.505	-68.678	109.594	1.00	35.85	A	C
ATOM	1543	CD1	LEU	A	318	242.492	-69.129	110.631	1.00	35.87	A	C
ATOM	1544	CD2	LEU	A	318	242.040	-68.906	108.254	1.00	39.24	A	C
ATOM	1545	C	LEU	A	318	238.440	-68.952	111.425	1.00	41.79	A	C
ATOM	1546	O	LEU	A	318	238.499	-67.943	112.191	1.00	36.26	A	O
ATOM	1547	N	CYS	A	319	237.301	-69.398	110.858	1.00	35.62	A	N
ATOM	1548	CA	CYS	A	319	236.053	-68.700	111.024	1.00	40.61	A	C
ATOM	1549	CB	CYS	A	319	235.013	-69.338	110.158	1.00	35.35	A	C
ATOM	1550	SG	CYS	A	319	233.324	-68.489	110.215	1.00	25.40	A	S
ATOM	1551	C	CYS	A	319	235.640	-68.734	112.482	1.00	35.51	A	C
ATOM	1552	O	CYS	A	319	235.027	-67.810	112.980	1.00	40.27	A	O
ATOM	1553	N	TYR	A	320	236.009	-69.795	113.182	1.00	38.46	A	N
ATOM	1554	CA	TYR	A	320	235.683	-69.942	114.604	1.00	39.25	A	C
ATOM	1555	CB	TYR	A	320	235.867	-71.406	115.016	1.00	37.24	A	C
ATOM	1556	CG	TYR	A	320	235.634	-71.683	116.479	1.00	38.04	A	C
ATOM	1557	CD1	TYR	A	320	236.573	-71.333	117.438	1.00	34.91	A	C
ATOM	1558	CE1	TYR	A	320	236.380	-71.640	118.800	1.00	31.79	A	C
ATOM	1559	CD2	TYR	A	320	234.484	-72.331	116.892	1.00	39.29	A	C
ATOM	1560	CE2	TYR	A	320	234.248	-72.628	118.233	1.00	35.49	A	C
ATOM	1561	CZ	TYR	A	320	235.191	-72.289	119.198	1.00	41.97	A	C
ATOM	1562	OH	TYR	A	320	234.905	-72.575	120.532	1.00	35.00	A	O
ATOM	1563	C	TYR	A	320	236.613	-69.038	115.435	1.00	43.31	A	C
ATOM	1564	O	TYR	A	320	236.166	-68.318	116.322	1.00	51.83	A	O
ATOM	1565	N	GLU	A	321	237.910	-69.073	115.144	1.00	42.04	A	N
ATOM	1566	CA	GLU	A	321	238.860	-68.249	115.871	1.00	43.24	A	C
ATOM	1567	CB	GLU	A	321	240.273	-68.552	115.419	1.00	36.62	A	C
ATOM	1568	CG	GLU	A	321	241.311	-67.733	116.144	1.00	43.20	A	C
ATOM	1569	CD	GLU	A	321	242.689	-68.087	115.740	1.00	47.61	A	C
ATOM	1570	OE1	GLU	A	321	242.845	-69.101	115.003	1.00	49.19	A	O
ATOM	1571	OE2	GLU	A	321	243.606	-67.350	116.171	1.00	55.54	A	O
ATOM	1572	C	GLU	A	321	238.569	-66.763	115.714	1.00	42.47	A	C
ATOM	1573	O	GLU	A	321	238.794	-65.970	116.656	1.00	48.77	A	O
ATOM	1574	N	PHE	A	322	238.073	-66.377	114.539	1.00	40.79	A	N
ATOM	1575	CA	PHE	A	322	237.728	-64.970	114.299	1.00	37.96	A	C
ATOM	1576	CB	PHE	A	322	237.361	-64.737	112.846	1.00	37.47	A	C
ATOM	1577	CG	PHE	A	322	238.517	-64.880	111.892	1.00	39.59	A	C
ATOM	1578	CD1	PHE	A	322	239.839	-64.729	112.338	1.00	34.97	A	C
ATOM	1579	CD2	PHE	A	322	238.279	-65.133	110.515	1.00	41.97	A	C
ATOM	1580	CE1	PHE	A	322	240.892	-64.830	111.441	1.00	36.15	A	C
ATOM	1581	CE2	PHE	A	322	239.342	-65.232	109.605	1.00	35.10	A	C
ATOM	1582	CZ	PHE	A	322	240.649	-65.081	110.070	1.00	38.47	A	C
ATOM	1583	C	PHE	A	322	236.569	-64.466	115.166	1.00	40.06	A	C
ATOM	1584	O	PHE	A	322	236.542	-63.305	115.532	1.00	37.07	A	O
ATOM	1585	N	LEU	A	323	235.636	-65.356	115.499	1.00	34.80	A	N
ATOM	1586	CA	LEU	A	323	234.484	-65.021	116.291	1.00	30.32	A	C
ATOM	1587	CB	LEU	A	323	233.317	-65.873	115.774	1.00	28.53	A	C
ATOM	1588	CG	LEU	A	323	232.935	-65.689	114.325	1.00	29.77	A	C
ATOM	1589	CD1	LEU	A	323	231.967	-66.804	113.984	1.00	24.59	A	C
ATOM	1590	CD2	LEU	A	323	232.306	-64.288	114.046	1.00	30.36	A	C
ATOM	1591	C	LEU	A	323	234.661	-65.226	117.824	1.00	40.81	A	C
ATOM	1592	O	LEU	A	323	234.058	-64.495	118.618	1.00	36.74	A	O
ATOM	1593	N	VAL	A	324	235.435	-66.247	118.216	1.00	38.37	A	N
ATOM	1594	CA	VAL	A	324	235.629	-66.590	119.612	1.00	35.74	A	C
ATOM	1595	CB	VAL	A	324	235.648	-68.102	119.816	1.00	37.17	A	C
ATOM	1596	CG1	VAL	A	324	235.879	-68.419	121.294	1.00	34.96	A	C
ATOM	1597	CG2	VAL	A	324	234.352	-68.697	119.303	1.00	26.08	A	C
ATOM	1598	C	VAL	A	324	236.903	-66.012	120.154	1.00	35.95	A	C
ATOM	1599	O	VAL	A	324	236.947	-65.631	121.301	1.00	44.11	A	O
ATOM	1600	N	GLY	A	325	237.936	-65.929	119.330	1.00	41.01	A	N
ATOM	1601	CA	GLY	A	325	239.198	-65.355	119.782	1.00	39.51	A	C
ATOM	1602	C	GLY	A	325	240.283	-66.402	119.960	1.00	44.55	A	C

ATOM	1603	O	GLY A 325	241.414	-66.092	120.321	1.00	38.22	A	O
ATOM	1604	N	LYS A 326	239.929	-67.663	119.722	1.00	45.05	A	N
ATOM	1605	CA	LYS A 326	240.881	-68.764	119.861	1.00	45.42	A	C
ATOM	1606	CB	LYS A 326	240.994	-69.180	121.325	1.00	52.62	A	C
ATOM	1607	CG	LYS A 326	239.699	-69.600	121.927	1.00	55.78	A	C
ATOM	1608	CD	LYS A 326	239.856	-69.912	123.415	1.00	60.70	A	C
ATOM	1609	CE	LYS A 326	238.486	-70.233	124.058	1.00	66.17	A	C
ATOM	1610	NZ	LYS A 326	238.569	-70.651	125.479	1.00	62.77	A	N
ATOM	1611	C	LYS A 326	240.419	-69.937	119.005	1.00	46.11	A	C
ATOM	1612	O	LYS A 326	239.259	-70.074	118.767	1.00	39.63	A	O
ATOM	1613	N	PRO A 327	241.336	-70.820	118.568	1.00	53.36	A	N
ATOM	1614	CD	PRO A 327	242.773	-70.850	118.901	1.00	43.78	A	C
ATOM	1615	CA	PRO A 327	240.980	-71.968	117.726	1.00	41.74	A	C
ATOM	1616	CB	PRO A 327	242.331	-72.631	117.446	1.00	38.86	A	C
ATOM	1617	CG	PRO A 327	243.349	-71.561	117.738	1.00	42.00	A	C
ATOM	1618	C	PRO A 327	240.064	-72.895	118.474	1.00	40.42	A	C
ATOM	1619	O	PRO A 327	240.166	-73.021	119.700	1.00	46.66	A	O
ATOM	1620	N	PRO A 328	239.209	-73.624	117.743	1.00	40.91	A	N
ATOM	1621	CD	PRO A 328	239.083	-73.540	116.278	1.00	35.93	A	C
ATOM	1622	CA	PRO A 328	238.232	-74.572	118.297	1.00	43.34	A	C
ATOM	1623	CB	PRO A 328	237.340	-74.900	117.106	1.00	40.94	A	C
ATOM	1624	CG	PRO A 328	238.298	-74.799	115.948	1.00	38.83	A	C
ATOM	1625	C	PRO A 328	238.785	-75.820	118.933	1.00	44.48	A	C
ATOM	1626	O	PRO A 328	238.075	-76.507	119.657	1.00	56.46	A	O
ATOM	1627	N	PHE A 329	240.053	-76.118	118.674	1.00	50.25	A	N
ATOM	1628	CA	PHE A 329	240.691	-77.334	119.223	1.00	45.46	A	C
ATOM	1629	CB	PHE A 329	241.119	-78.268	118.089	1.00	42.34	A	C
ATOM	1630	CG	PHE A 329	240.026	-78.559	117.139	1.00	42.28	A	C
ATOM	1631	CD1	PHE A 329	238.895	-79.252	117.575	1.00	39.79	A	C
ATOM	1632	CD2	PHE A 329	240.097	-78.138	115.808	1.00	39.80	A	C
ATOM	1633	CE1	PHE A 329	237.824	-79.529	116.665	1.00	42.28	A	C
ATOM	1634	CE2	PHE A 329	239.034	-78.408	114.902	1.00	45.87	A	C
ATOM	1635	CZ	PHE A 329	237.903	-79.106	115.332	1.00	40.12	A	C
ATOM	1636	C	PHE A 329	241.904	-76.978	120.064	1.00	45.73	A	C
ATOM	1637	O	PHE A 329	242.769	-77.808	120.277	1.00	40.30	A	O
ATOM	1638	N	GLU A 330	241.958	-75.741	120.543	1.00	44.00	A	N
ATOM	1639	CA	GLU A 330	243.070	-75.285	121.345	1.00	50.19	A	C
ATOM	1640	CB	GLU A 330	242.855	-73.844	121.787	1.00	54.34	A	C
ATOM	1641	CG	GLU A 330	244.140	-73.087	122.035	1.00	65.74	A	C
ATOM	1642	CD	GLU A 330	243.932	-71.802	122.845	1.00	74.00	A	C
ATOM	1643	OE1	GLU A 330	244.822	-70.906	122.794	1.00	80.13	A	O
ATOM	1644	OE2	GLU A 330	242.884	-71.701	123.543	1.00	77.27	A	O
ATOM	1645	C	GLU A 330	243.172	-76.161	122.550	1.00	51.87	A	C
ATOM	1646	O	GLU A 330	242.158	-76.668	123.029	1.00	54.61	A	O
ATOM	1647	N	ALA A 331	244.404	-76.359	123.020	1.00	56.85	A	N
ATOM	1648	CA	ALA A 331	244.680	-77.163	124.217	1.00	60.04	A	C
ATOM	1649	CB	ALA A 331	244.791	-78.618	123.872	1.00	51.13	A	C
ATOM	1650	C	ALA A 331	245.992	-76.676	124.795	1.00	60.84	A	C
ATOM	1651	O	ALA A 331	246.630	-75.805	124.208	1.00	69.22	A	O
ATOM	1652	N	ASN A 332	246.378	-77.197	125.962	1.00	64.86	A	N
ATOM	1653	CA	ASN A 332	247.637	-76.790	126.560	1.00	61.08	A	C
ATOM	1654	CB	ASN A 332	247.514	-76.742	128.100	1.00	60.00	A	C
ATOM	1655	CG	ASN A 332	246.822	-75.435	128.611	1.00	67.42	A	C
ATOM	1656	OD1	ASN A 332	247.429	-74.359	128.654	1.00	68.56	A	O
ATOM	1657	ND2	ASN A 332	245.547	-75.544	129.000	1.00	72.60	A	N
ATOM	1658	C	ASN A 332	248.807	-77.666	126.080	1.00	60.05	A	C
ATOM	1659	O	ASN A 332	249.966	-77.257	126.234	1.00	65.40	A	O
ATOM	1660	N	THR A 333	248.512	-78.823	125.460	1.00	53.02	A	N
ATOM	1661	CA	THR A 333	249.562	-79.745	124.976	1.00	54.16	A	C
ATOM	1662	CB	THR A 333	249.652	-81.103	125.782	1.00	55.23	A	C
ATOM	1663	OG1	THR A 333	248.822	-82.111	125.160	1.00	53.00	A	O
ATOM	1664	CG2	THR A 333	249.296	-80.907	127.225	1.00	55.86	A	C
ATOM	1665	C	THR A 333	249.400	-80.153	123.497	1.00	59.22	A	C
ATOM	1666	O	THR A 333	248.379	-79.845	122.897	1.00	59.44	A	O
ATOM	1667	N	TYR A 334	250.358	-80.901	122.930	1.00	66.35	A	N
ATOM	1668	CA	TYR A 334	250.331	-81.305	121.506	1.00	67.76	A	C
ATOM	1669	CB	TYR A 334	251.770	-81.458	120.999	1.00	65.59	A	C
ATOM	1670	CG	TYR A 334	251.922	-82.193	119.636	1.00	60.98	A	C
ATOM	1671	CD1	TYR A 334	252.369	-81.519	118.539	1.00	58.37	A	C
ATOM	1672	CE1	TYR A 334	252.454	-82.152	117.323	1.00	57.12	A	C

ATOM	1673	CD2	TYR	A	334	251.556	-83.561	119.454	1.00	60.46	A	C
ATOM	1674	CE2	TYR	A	334	251.612	-84.203	118.235	1.00	54.51	A	C
ATOM	1675	CZ	TYR	A	334	252.081	-83.483	117.170	1.00	61.53	A	C
ATOM	1676	OH	TYR	A	334	252.259	-84.054	115.932	1.00	64.63	A	O
ATOM	1677	C	TYR	A	334	249.706	-82.673	121.408	1.00	72.76	A	C
ATOM	1678	O	TYR	A	334	249.561	-83.257	120.347	1.00	80.80	A	O
ATOM	1679	N	GLN	A	335	249.281	-83.198	122.511	1.00	75.82	A	N
ATOM	1680	CA	GLN	A	335	248.849	-84.550	122.438	1.00	75.10	A	C
ATOM	1681	CB	GLN	A	335	249.822	-85.260	123.381	1.00	74.39	A	C
ATOM	1682	CG	GLN	A	335	251.326	-84.889	123.021	1.00	71.11	A	C
ATOM	1683	CD	GLN	A	335	252.200	-84.301	124.134	1.00	70.17	A	C
ATOM	1684	OE1	GLN	A	335	253.434	-84.204	123.959	1.00	71.56	A	O
ATOM	1685	NE2	GLN	A	335	251.605	-83.897	125.269	1.00	67.14	A	N
ATOM	1686	C	GLN	A	335	247.415	-84.426	122.926	1.00	72.12	A	C
ATOM	1687	O	GLN	A	335	246.584	-85.314	122.698	1.00	70.11	A	O
ATOM	1688	N	GLU	A	336	247.129	-83.272	123.527	1.00	67.17	A	N
ATOM	1689	CA	GLU	A	336	245.815	-82.981	124.050	1.00	66.23	A	C
ATOM	1690	CB	GLU	A	336	245.911	-81.929	125.131	1.00	54.23	A	C
ATOM	1691	C	GLU	A	336	245.132	-82.389	122.779	1.00	63.60	A	C
ATOM	1692	O	GLU	A	336	243.998	-82.726	122.478	1.00	68.92	A	O
ATOM	1693	N	THR	A	337	245.807	-81.474	122.060	1.00	63.51	A	N
ATOM	1694	CA	THR	A	337	245.246	-80.840	120.863	1.00	45.32	A	C
ATOM	1695	CB	THR	A	337	246.221	-79.805	120.292	1.00	48.60	A	C
ATOM	1696	OG1	THR	A	337	246.433	-78.730	121.227	1.00	44.49	A	O
ATOM	1697	CG2	THR	A	337	245.691	-79.262	118.948	1.00	33.80	A	C
ATOM	1698	C	THR	A	337	245.031	-81.916	119.825	1.00	55.74	A	C
ATOM	1699	O	THR	A	337	244.036	-81.911	119.094	1.00	53.43	A	O
ATOM	1700	N	TYR	A	338	245.979	-82.848	119.758	1.00	62.69	A	N
ATOM	1701	CA	TYR	A	338	245.902	-83.948	118.795	1.00	62.09	A	C
ATOM	1702	CB	TYR	A	338	247.056	-84.923	119.028	1.00	70.33	A	C
ATOM	1703	CG	TYR	A	338	247.098	-86.080	118.034	1.00	74.69	A	C
ATOM	1704	CD1	TYR	A	338	248.041	-86.116	117.016	1.00	72.79	A	C
ATOM	1705	CE1	TYR	A	338	248.050	-87.154	116.101	1.00	75.92	A	C
ATOM	1706	CD2	TYR	A	338	246.167	-87.121	118.096	1.00	70.94	A	C
ATOM	1707	CE2	TYR	A	338	246.167	-88.153	117.173	1.00	73.14	A	C
ATOM	1708	CZ	TYR	A	338	247.102	-88.168	116.186	1.00	73.24	A	C
ATOM	1709	OH	TYR	A	338	247.091	-89.196	115.273	1.00	74.46	A	O
ATOM	1710	C	TYR	A	338	244.586	-84.698	118.971	1.00	62.03	A	C
ATOM	1711	O	TYR	A	338	243.884	-85.017	117.982	1.00	52.46	A	O
ATOM	1712	N	LYS	A	339	244.267	-84.991	120.242	1.00	58.53	A	N
ATOM	1713	CA	LYS	A	339	243.048	-85.733	120.587	1.00	51.87	A	C
ATOM	1714	CB	LYS	A	339	243.020	-86.042	122.063	1.00	52.84	A	C
ATOM	1715	C	LYS	A	339	241.791	-84.990	120.165	1.00	50.97	A	C
ATOM	1716	O	LYS	A	339	240.975	-85.531	119.412	1.00	50.87	A	O
ATOM	1717	N	ARG	A	340	241.675	-83.725	120.575	1.00	44.05	A	N
ATOM	1718	CA	ARG	A	340	240.507	-82.938	120.230	1.00	47.22	A	C
ATOM	1719	CB	ARG	A	340	240.532	-81.574	120.904	1.00	45.76	A	C
ATOM	1720	CG	ARG	A	340	240.286	-81.607	122.398	1.00	52.85	A	C
ATOM	1721	CD	ARG	A	340	240.241	-80.202	122.999	1.00	59.79	A	C
ATOM	1722	NE	ARG	A	340	239.045	-79.491	122.535	1.00	67.64	A	N
ATOM	1723	CZ	ARG	A	340	238.843	-78.186	122.672	1.00	65.86	A	C
ATOM	1724	NH1	ARG	A	340	239.763	-77.446	123.254	1.00	67.71	A	N
ATOM	1725	NH2	ARG	A	340	237.722	-77.631	122.240	1.00	68.60	A	N
ATOM	1726	C	ARG	A	340	240.299	-82.765	118.738	1.00	46.20	A	C
ATOM	1727	O	ARG	A	340	239.144	-82.785	118.274	1.00	48.74	A	O
ATOM	1728	N	ILE	A	341	241.387	-82.597	117.979	1.00	47.52	A	N
ATOM	1729	CA	ILE	A	341	241.253	-82.462	116.511	1.00	49.01	A	C
ATOM	1730	CB	ILE	A	341	242.586	-82.067	115.787	1.00	48.35	A	C
ATOM	1731	CG2	ILE	A	341	242.367	-82.130	114.290	1.00	34.18	A	C
ATOM	1732	CG1	ILE	A	341	243.053	-80.674	116.236	1.00	44.80	A	C
ATOM	1733	CD1	ILE	A	341	244.317	-80.259	115.592	1.00	47.34	A	C
ATOM	1734	C	ILE	A	341	240.783	-83.752	115.851	1.00	53.55	A	C
ATOM	1735	O	ILE	A	341	239.936	-83.734	114.948	1.00	44.79	A	O
ATOM	1736	N	SER	A	342	241.369	-84.867	116.286	1.00	59.31	A	N
ATOM	1737	CA	SER	A	342	241.014	-86.175	115.743	1.00	65.95	A	C
ATOM	1738	CB	SER	A	342	242.037	-87.227	116.158	1.00	66.33	A	C
ATOM	1739	OG	SER	A	342	241.613	-88.516	115.745	1.00	63.35	A	O
ATOM	1740	C	SER	A	342	239.628	-86.604	116.202	1.00	65.99	A	C
ATOM	1741	O	SER	A	342	238.941	-87.327	115.475	1.00	61.18	A	O
ATOM	1742	N	ARG	A	343	239.232	-86.162	117.400	1.00	61.34	A	N

ATOM	1743	CA	ARG	A	343	237.910	-86.478	117.932	1.00	59.46	A	C
ATOM	1744	CB	ARG	A	343	237.888	-86.410	119.456	1.00	58.77	A	C
ATOM	1745	CG	ARG	A	343	238.466	-87.604	120.201	1.00	47.50	A	C
ATOM	1746	CD	ARG	A	343	238.360	-87.314	121.675	1.00	60.64	A	C
ATOM	1747	NE	ARG	A	343	238.972	-88.327	122.530	1.00	66.55	A	N
ATOM	1748	CZ	ARG	A	343	238.930	-88.278	123.865	1.00	74.36	A	C
ATOM	1749	NH1	ARG	A	343	238.309	-87.268	124.510	1.00	73.84	A	N
ATOM	1750	NH2	ARG	A	343	239.502	-89.248	124.573	1.00	82.35	A	N
ATOM	1751	C	ARG	A	343	236.902	-85.448	117.406	1.00	62.95	A	C
ATOM	1752	O	ARG	A	343	235.682	-85.706	117.372	1.00	61.25	A	O
ATOM	1753	N	VAL	A	344	237.421	-84.275	117.011	1.00	62.37	A	N
ATOM	1754	CA	VAL	A	344	236.592	-83.163	116.517	1.00	52.53	A	C
ATOM	1755	CB	VAL	A	344	235.625	-83.614	115.386	1.00	46.83	A	C
ATOM	1756	CG1	VAL	A	344	235.005	-82.383	114.685	1.00	30.17	A	C
ATOM	1757	CG2	VAL	A	344	236.378	-84.445	114.375	1.00	41.05	A	C
ATOM	1758	C	VAL	A	344	235.794	-82.735	117.737	1.00	56.35	A	C
ATOM	1759	O	VAL	A	344	234.569	-82.790	117.750	1.00	58.20	A	O
ATOM	1760	N	GLU	A	345	236.521	-82.345	118.775	1.00	52.70	A	N
ATOM	1761	CA	GLU	A	345	235.945	-81.929	120.037	1.00	55.50	A	C
ATOM	1762	CB	GLU	A	345	236.726	-82.610	121.170	1.00	59.39	A	C
ATOM	1763	CG	GLU	A	345	236.049	-82.656	122.512	1.00	70.94	A	C
ATOM	1764	CD	GLU	A	345	236.741	-83.623	123.456	1.00	80.37	A	C
ATOM	1765	OE1	GLU	A	345	236.904	-84.815	123.076	1.00	83.68	A	O
ATOM	1766	OE2	GLU	A	345	237.114	-83.190	124.572	1.00	84.85	A	O
ATOM	1767	C	GLU	A	345	235.984	-80.414	120.226	1.00	55.94	A	C
ATOM	1768	O	GLU	A	345	237.012	-79.866	120.647	1.00	52.34	A	O
ATOM	1769	N	PHE	A	346	234.868	-79.746	119.941	1.00	55.31	A	N
ATOM	1770	CA	PHE	A	346	234.777	-78.298	120.123	1.00	58.97	A	C
ATOM	1771	CB	PHE	A	346	235.238	-77.601	118.840	1.00	55.59	A	C
ATOM	1772	CG	PHE	A	346	234.247	-77.671	117.721	1.00	51.30	A	C
ATOM	1773	CD1	PHE	A	346	233.315	-76.667	117.540	1.00	47.92	A	C
ATOM	1774	CD2	PHE	A	346	234.261	-78.734	116.842	1.00	51.74	A	C
ATOM	1775	CE1	PHE	A	346	232.396	-76.715	116.483	1.00	54.03	A	C
ATOM	1776	CE2	PHE	A	346	233.348	-78.810	115.764	1.00	54.32	A	C
ATOM	1777	CZ	PHE	A	346	232.409	-77.803	115.575	1.00	51.48	A	C
ATOM	1778	C	PHE	A	346	233.356	-77.832	120.501	1.00	60.04	A	C
ATOM	1779	O	PHE	A	346	232.368	-78.494	120.173	1.00	69.92	A	O
ATOM	1780	N	THR	A	347	233.261	-76.697	121.184	1.00	56.17	A	N
ATOM	1781	CA	THR	A	347	231.979	-76.158	121.555	1.00	54.44	A	C
ATOM	1782	CB	THR	A	347	231.732	-76.329	123.013	1.00	47.09	A	C
ATOM	1783	OG1	THR	A	347	232.718	-75.600	123.725	1.00	47.43	A	O
ATOM	1784	CG2	THR	A	347	231.799	-77.783	123.402	1.00	48.24	A	C
ATOM	1785	C	THR	A	347	231.885	-74.683	121.223	1.00	56.33	A	C
ATOM	1786	O	THR	A	347	232.902	-73.985	121.113	1.00	62.80	A	O
ATOM	1787	N	PHE	A	348	230.646	-74.235	120.999	1.00	63.69	A	N
ATOM	1788	CA	PHE	A	348	230.389	-72.815	120.723	1.00	65.89	A	C
ATOM	1789	CB	PHE	A	348	229.306	-72.558	119.708	1.00	57.72	A	C
ATOM	1790	CG	PHE	A	348	229.584	-73.148	118.381	1.00	55.81	A	C
ATOM	1791	CD1	PHE	A	348	229.017	-74.364	118.020	1.00	51.99	A	C
ATOM	1792	CD2	PHE	A	348	230.337	-72.462	117.450	1.00	53.67	A	C
ATOM	1793	CE1	PHE	A	348	229.171	-74.857	116.780	1.00	46.52	A	C
ATOM	1794	CE2	PHE	A	348	230.492	-72.966	116.190	1.00	50.86	A	C
ATOM	1795	CZ	PHE	A	348	229.903	-74.166	115.860	1.00	51.38	A	C
ATOM	1796	C	PHE	A	348	229.966	-72.048	121.961	1.00	65.81	A	C
ATOM	1797	O	PHE	A	348	229.223	-72.532	122.808	1.00	73.51	A	O
ATOM	1798	N	PRO	A	349	230.578	-70.898	122.150	1.00	59.06	A	N
ATOM	1799	CD	PRO	A	349	232.018	-71.026	121.861	1.00	61.27	A	C
ATOM	1800	CA	PRO	A	349	230.381	-69.933	123.199	1.00	56.66	A	C
ATOM	1801	CB	PRO	A	349	231.466	-68.944	122.870	1.00	58.77	A	C
ATOM	1802	CG	PRO	A	349	232.627	-69.875	122.485	1.00	55.14	A	C
ATOM	1803	C	PRO	A	349	228.929	-69.409	122.948	1.00	57.97	A	C
ATOM	1804	O	PRO	A	349	228.312	-69.642	121.916	1.00	59.47	A	O
ATOM	1805	N	ASP	A	350	228.344	-68.735	123.909	1.00	59.19	A	N
ATOM	1806	CA	ASP	A	350	226.961	-68.282	123.714	1.00	51.98	A	C
ATOM	1807	CB	ASP	A	350	226.338	-67.819	125.044	1.00	65.27	A	C
ATOM	1808	CG	ASP	A	350	226.140	-68.958	126.020	1.00	72.68	A	C
ATOM	1809	OD1	ASP	A	350	225.764	-68.668	127.188	1.00	77.91	A	O
ATOM	1810	OD2	ASP	A	350	226.359	-70.131	125.607	1.00	78.14	A	O
ATOM	1811	C	ASP	A	350	226.787	-67.197	122.665	1.00	54.69	A	C
ATOM	1812	O	ASP	A	350	225.753	-67.202	121.947	1.00	40.28	A	O

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ATOM    1813  N   PHE A 351     227.786 -66.308 122.539  1.00 47.45      A  N
ATOM    1814  CA  PHE A 351     227.682 -65.217 121.584  1.00 51.83      A  C
ATOM    1815  CB  PHE A 351     228.693 -64.106 121.893  1.00 48.14      A  C
ATOM    1816  CG  PHE A 351     230.108 -64.580 122.004  1.00 51.21      A  C
ATOM    1817  CD1 PHE A 351     230.589 -65.111 123.207  1.00 49.73      A  C
ATOM    1818  CD2 PHE A 351     230.979 -64.468 120.915  1.00 46.79      A  C
ATOM    1819  CE1 PHE A 351     231.906 -65.506 123.312  1.00 48.51      A  C
ATOM    1820  CE2 PHE A 351     232.294 -64.864 121.026  1.00 47.18      A  C
ATOM    1821  CZ  PHE A 351     232.758 -65.379 122.215  1.00 45.61      A  C
ATOM    1822  C   PHE A 351     227.797 -65.610 120.125  1.00 52.56      A  C
ATOM    1823  O   PHE A 351     227.604 -64.771 119.250  1.00 57.29      A  O
ATOM    1824  N   VAL A 352     228.115 -66.874 119.863  1.00 54.95      A  N
ATOM    1825  CA  VAL A 352     228.263 -67.341 118.495  1.00 48.00      A  C
ATOM    1826  CB  VAL A 352     229.145 -68.621 118.432  1.00 43.19      A  C
ATOM    1827  CG1 VAL A 352     229.300 -69.094 117.035  1.00 33.61      A  C
ATOM    1828  CG2 VAL A 352     230.509 -68.325 118.972  1.00 39.08      A  C
ATOM    1829  C   VAL A 352     226.875 -67.603 117.916  1.00 48.25      A  C
ATOM    1830  O   VAL A 352     226.211 -68.567 118.255  1.00 51.46      A  O
ATOM    1831  N   THR A 353     226.446 -66.748 117.004  1.00 47.51      A  N
ATOM    1832  CA  THR A 353     225.122 -66.886 116.413  1.00 53.02      A  C
ATOM    1833  CB  THR A 353     224.844 -65.817 115.383  1.00 47.94      A  C
ATOM    1834  OG1 THR A 353     225.671 -66.052 114.246  1.00 54.22      A  O
ATOM    1835  CG2 THR A 353     225.130 -64.437 115.950  1.00 47.89      A  C
ATOM    1836  C   THR A 353     224.908 -68.227 115.753  1.00 52.60      A  C
ATOM    1837  O   THR A 353     225.851 -68.974 115.552  1.00 52.94      A  O
ATOM    1838  N   GLU A 354     223.654 -68.513 115.404  1.00 55.25      A  N
ATOM    1839  CA  GLU A 354     223.259 -69.786 114.819  1.00 56.40      A  C
ATOM    1840  CB  GLU A 354     221.736 -69.929 114.829  1.00 53.45      A  C
ATOM    1841  C   GLU A 354     223.762 -69.866 113.416  1.00 56.12      A  C
ATOM    1842  O   GLU A 354     224.078 -70.954 112.927  1.00 62.85      A  O
ATOM    1843  N   GLY A 355     223.831 -68.718 112.749  1.00 61.99      A  N
ATOM    1844  CA  GLY A 355     224.317 -68.699 111.373  1.00 52.27      A  C
ATOM    1845  C   GLY A 355     225.787 -69.093 111.250  1.00 52.90      A  C
ATOM    1846  O   GLY A 355     226.166 -69.822 110.327  1.00 47.53      A  O
ATOM    1847  N   ALA A 356     226.611 -68.602 112.182  1.00 47.86      A  N
ATOM    1848  CA  ALA A 356     228.022 -68.912 112.199  1.00 45.96      A  C
ATOM    1849  CB  ALA A 356     228.721 -67.995 113.123  1.00 42.05      A  C
ATOM    1850  C   ALA A 356     228.221 -70.359 112.627  1.00 47.72      A  C
ATOM    1851  O   ALA A 356     229.011 -71.078 112.025  1.00 46.93      A  O
ATOM    1852  N   ARG A 357     227.486 -70.784 113.651  1.00 49.03      A  N
ATOM    1853  CA  ARG A 357     227.558 -72.153 114.146  1.00 56.76      A  C
ATOM    1854  CB  ARG A 357     226.549 -72.374 115.280  1.00 55.71      A  C
ATOM    1855  CG  ARG A 357     226.876 -71.606 116.583  1.00 57.21      A  C
ATOM    1856  CD  ARG A 357     226.018 -72.108 117.752  1.00 41.40      A  C
ATOM    1857  NE  ARG A 357     226.260 -71.310 118.928  1.00 43.14      A  N
ATOM    1858  CZ  ARG A 357     225.979 -71.698 120.148  1.00 39.58      A  C
ATOM    1859  NH1 ARG A 357     225.456 -72.893 120.340  1.00 42.66      A  N
ATOM    1860  NH2 ARG A 357     226.191 -70.869 121.163  1.00 51.41      A  N
ATOM    1861  C   ARG A 357     227.299 -73.181 113.043  1.00 58.61      A  C
ATOM    1862  O   ARG A 357     227.922 -74.260 112.996  1.00 62.70      A  O
ATOM    1863  N   ASP A 358     226.383 -72.845 112.150  1.00 56.80      A  N
ATOM    1864  CA  ASP A 358     226.053 -73.738 111.055  1.00 56.49      A  C
ATOM    1865  CB  ASP A 358     224.792 -73.245 110.363  1.00 59.12      A  C
ATOM    1866  CG  ASP A 358     224.380 -74.141 109.209  1.00 65.41      A  C
ATOM    1867  OD1 ASP A 358     224.036 -75.319 109.461  1.00 60.89      A  O
ATOM    1868  OD2 ASP A 358     224.403 -73.669 108.049  1.00 68.71      A  O
ATOM    1869  C   ASP A 358     227.178 -73.837 110.017  1.00 56.31      A  C
ATOM    1870  O   ASP A 358     227.523 -74.915 109.545  1.00 56.62      A  O
ATOM    1871  N   LEU A 359     227.735 -72.694 109.640  1.00 57.58      A  N
ATOM    1872  CA  LEU A 359     228.812 -72.663 108.658  1.00 55.45      A  C
ATOM    1873  CB  LEU A 359     229.158 -71.227 108.302  1.00 53.49      A  C
ATOM    1874  CG  LEU A 359     230.326 -71.029 107.344  1.00 49.10      A  C
ATOM    1875  CD1 LEU A 359     230.077 -71.756 106.082  1.00 42.56      A  C
ATOM    1876  CD2 LEU A 359     230.525 -69.538 107.083  1.00 51.15      A  C
ATOM    1877  C   LEU A 359     230.048 -73.366 109.200  1.00 57.66      A  C
ATOM    1878  O   LEU A 359     230.680 -74.142 108.481  1.00 65.55      A  O
ATOM    1879  N   ILE A 360     230.370 -73.121 110.470  1.00 49.19      A  N
ATOM    1880  CA  ILE A 360     231.535 -73.740 111.089  1.00 43.07      A  C
ATOM    1881  CB  ILE A 360     231.819 -73.111 112.485  1.00 35.85      A  C
ATOM    1882  CG2 ILE A 360     232.892 -73.858 113.220  1.00 37.90      A  C
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ATOM	1883	CG1	ILE	A	360	232.254	-71.652	112.301	1.00	32.36	A	C
ATOM	1884	CD1	ILE	A	360	232.250	-70.839	113.653	1.00	27.28	A	C
ATOM	1885	C	ILE	A	360	231.368	-75.240	111.229	1.00	40.84	A	C
ATOM	1886	O	ILE	A	360	232.330	-75.980	111.042	1.00	44.75	A	O
ATOM	1887	N	SER	A	361	230.158	-75.670	111.591	1.00	46.60	A	N
ATOM	1888	CA	SER	A	361	229.855	-77.089	111.780	1.00	52.65	A	C
ATOM	1889	CB	SER	A	361	228.546	-77.265	112.526	1.00	49.78	A	C
ATOM	1890	OG	SER	A	361	228.742	-77.062	113.925	1.00	60.97	A	O
ATOM	1891	C	SER	A	361	229.827	-77.906	110.497	1.00	53.49	A	C
ATOM	1892	O	SER	A	361	229.885	-79.159	110.538	1.00	53.09	A	O
ATOM	1893	N	ARG	A	362	229.799	-77.198	109.368	1.00	54.39	A	N
ATOM	1894	CA	ARG	A	362	229.796	-77.841	108.066	1.00	52.12	A	C
ATOM	1895	CB	ARG	A	362	229.033	-76.978	107.065	1.00	59.93	A	C
ATOM	1896	CG	ARG	A	362	227.535	-76.862	107.327	1.00	61.75	A	C
ATOM	1897	CD	ARG	A	362	226.887	-75.820	106.401	1.00	69.51	A	C
ATOM	1898	NE	ARG	A	362	225.432	-75.784	106.547	1.00	76.19	A	N
ATOM	1899	CZ	ARG	A	362	224.625	-76.795	106.216	1.00	80.23	A	C
ATOM	1900	NH1	ARG	A	362	225.128	-77.919	105.716	1.00	81.25	A	N
ATOM	1901	NH2	ARG	A	362	223.313	-76.697	106.397	1.00	77.76	A	N
ATOM	1902	C	ARG	A	362	231.211	-78.066	107.537	1.00	49.26	A	C
ATOM	1903	O	ARG	A	362	231.460	-79.036	106.822	1.00	49.03	A	O
ATOM	1904	N	LEU	A	363	232.120	-77.162	107.891	1.00	49.05	A	N
ATOM	1905	CA	LEU	A	363	233.493	-77.234	107.438	1.00	46.81	A	C
ATOM	1906	CB	LEU	A	363	234.134	-75.850	107.508	1.00	42.60	A	C
ATOM	1907	CG	LEU	A	363	233.457	-74.729	106.714	1.00	44.53	A	C
ATOM	1908	CD1	LEU	A	363	234.050	-73.356	107.133	1.00	43.18	A	C
ATOM	1909	CD2	LEU	A	363	233.602	-74.961	105.258	1.00	42.47	A	C
ATOM	1910	C	LEU	A	363	234.270	-78.228	108.280	1.00	49.03	A	C
ATOM	1911	O	LEU	A	363	235.049	-79.020	107.751	1.00	57.90	A	O
ATOM	1912	N	LEU	A	364	234.062	-78.186	109.589	1.00	47.92	A	N
ATOM	1913	CA	LEU	A	364	234.774	-79.071	110.488	1.00	49.66	A	C
ATOM	1914	CB	LEU	A	364	234.792	-78.462	111.909	1.00	46.24	A	C
ATOM	1915	CG	LEU	A	364	235.511	-77.115	112.043	1.00	47.59	A	C
ATOM	1916	CD1	LEU	A	364	235.230	-76.547	113.413	1.00	44.59	A	C
ATOM	1917	CD2	LEU	A	364	237.029	-77.318	111.836	1.00	45.40	A	C
ATOM	1918	C	LEU	A	364	234.233	-80.493	110.526	1.00	50.53	A	C
ATOM	1919	O	LEU	A	364	233.804	-80.963	111.575	1.00	56.94	A	O
ATOM	1920	N	LYS	A	365	234.267	-81.178	109.385	1.00	61.00	A	N
ATOM	1921	CA	LYS	A	365	233.796	-82.564	109.263	1.00	64.52	A	C
ATOM	1922	CB	LYS	A	365	233.059	-82.728	107.925	1.00	60.48	A	C
ATOM	1923	CG	LYS	A	365	231.753	-81.921	107.829	1.00	53.27	A	C
ATOM	1924	CD	LYS	A	365	230.702	-82.412	108.828	1.00	61.58	A	C
ATOM	1925	CE	LYS	A	365	229.295	-81.895	108.447	1.00	59.92	A	C
ATOM	1926	NZ	LYS	A	365	228.297	-82.223	109.508	1.00	75.42	A	N
ATOM	1927	C	LYS	A	365	235.026	-83.500	109.392	1.00	66.56	A	C
ATOM	1928	O	LYS	A	365	236.146	-83.084	109.123	1.00	71.71	A	O
ATOM	1929	N	HIS	A	366	234.844	-84.748	109.813	1.00	68.20	A	N
ATOM	1930	CA	HIS	A	366	236.011	-85.628	110.015	1.00	67.59	A	C
ATOM	1931	CB	HIS	A	366	235.781	-86.664	111.109	1.00	66.12	A	C
ATOM	1932	CG	HIS	A	366	236.913	-87.628	111.242	1.00	68.47	A	C
ATOM	1933	CD2	HIS	A	366	237.810	-87.749	112.245	1.00	66.88	A	C
ATOM	1934	ND1	HIS	A	366	237.332	-88.487	110.238	1.00	66.01	A	N
ATOM	1935	CE1	HIS	A	366	238.454	-89.075	110.623	1.00	70.20	A	C
ATOM	1936	NE2	HIS	A	366	238.761	-88.643	111.832	1.00	64.97	A	N
ATOM	1937	C	HIS	A	366	236.184	-86.385	108.739	1.00	68.25	A	C
ATOM	1938	O	HIS	A	366	237.098	-87.249	108.572	1.00	74.87	A	O
ATOM	1939	N	ASN	A	367	235.262	-86.111	107.848	1.00	65.45	A	N
ATOM	1940	CA	ASN	A	367	235.379	-86.795	106.656	1.00	62.81	A	C
ATOM	1941	CB	ASN	A	367	234.189	-87.664	106.498	1.00	64.61	A	C
ATOM	1942	CG	ASN	A	367	234.335	-88.548	105.333	1.00	69.77	A	C
ATOM	1943	OD1	ASN	A	367	234.339	-88.071	104.175	1.00	65.35	A	O
ATOM	1944	ND2	ASN	A	367	234.518	-89.855	105.596	1.00	69.27	A	N
ATOM	1945	C	ASN	A	367	235.504	-85.791	105.596	1.00	60.17	A	C
ATOM	1946	O	ASN	A	367	234.685	-84.923	105.475	1.00	67.65	A	O
ATOM	1947	N	PRO	A	368	236.650	-85.797	104.923	1.00	60.54	A	N
ATOM	1948	CD	PRO	A	368	237.882	-86.364	105.504	1.00	55.35	A	C
ATOM	1949	CA	PRO	A	368	236.981	-84.895	103.820	1.00	55.82	A	C
ATOM	1950	CB	PRO	A	368	238.199	-85.537	103.245	1.00	50.93	A	C
ATOM	1951	CG	PRO	A	368	238.938	-85.936	104.468	1.00	54.85	A	C
ATOM	1952	C	PRO	A	368	235.870	-84.741	102.783	1.00	59.90	A	C

ATOM	1953	O	PRO	A	368	235.706	-83.658	102.240	1.00	61.00	A	O
ATOM	1954	N	SER	A	369	235.093	-85.805	102.557	1.00	69.67	A	N
ATOM	1955	CA	SER	A	369	234.000	-85.800	101.588	1.00	72.88	A	C
ATOM	1956	CB	SER	A	369	233.537	-87.237	101.347	1.00	75.22	A	C
ATOM	1957	OG	SER	A	369	234.654	-88.115	101.256	1.00	85.92	A	O
ATOM	1958	C	SER	A	369	232.810	-84.951	102.046	1.00	71.84	A	C
ATOM	1959	O	SER	A	369	232.217	-84.231	101.229	1.00	75.53	A	O
ATOM	1960	N	GLN	A	370	232.465	-85.039	103.333	1.00	67.85	A	N
ATOM	1961	CA	GLN	A	370	231.339	-84.296	103.865	1.00	62.69	A	C
ATOM	1962	CB	GLN	A	370	231.067	-84.743	105.296	1.00	64.15	A	C
ATOM	1963	CG	GLN	A	370	230.629	-86.190	105.390	1.00	65.40	A	C
ATOM	1964	CD	GLN	A	370	230.923	-86.768	106.745	1.00	69.41	A	C
ATOM	1965	OE1	GLN	A	370	230.904	-86.051	107.752	1.00	75.34	A	O
ATOM	1966	NE2	GLN	A	370	231.189	-88.073	106.792	1.00	63.71	A	N
ATOM	1967	C	GLN	A	370	231.551	-82.778	103.799	1.00	63.34	A	C
ATOM	1968	O	GLN	A	370	230.582	-82.028	103.608	1.00	65.90	A	O
ATOM	1969	N	ARG	A	371	232.802	-82.324	103.934	1.00	56.18	A	N
ATOM	1970	CA	ARG	A	371	233.085	-80.905	103.889	1.00	54.33	A	C
ATOM	1971	CB	ARG	A	371	234.581	-80.691	103.961	1.00	48.64	A	C
ATOM	1972	CG	ARG	A	371	235.109	-80.785	105.354	1.00	46.61	A	C
ATOM	1973	CD	ARG	A	371	236.618	-80.922	105.403	1.00	43.30	A	C
ATOM	1974	NE	ARG	A	371	236.988	-81.971	106.350	1.00	42.51	A	N
ATOM	1975	CZ	ARG	A	371	238.208	-82.476	106.436	1.00	42.45	A	C
ATOM	1976	NH1	ARG	A	371	239.165	-81.997	105.635	1.00	36.24	A	N
ATOM	1977	NH2	ARG	A	371	238.449	-83.494	107.266	1.00	33.74	A	N
ATOM	1978	C	ARG	A	371	232.496	-80.275	102.651	1.00	56.25	A	C
ATOM	1979	O	ARG	A	371	232.578	-80.836	101.587	1.00	64.77	A	O
ATOM	1980	N	PRO	A	372	231.885	-79.089	102.783	1.00	60.04	A	N
ATOM	1981	CD	PRO	A	372	231.813	-78.305	104.029	1.00	57.31	A	C
ATOM	1982	CA	PRO	A	372	231.260	-78.365	101.659	1.00	57.19	A	C
ATOM	1983	CB	PRO	A	372	230.522	-77.231	102.348	1.00	55.89	A	C
ATOM	1984	CG	PRO	A	372	231.448	-76.927	103.522	1.00	60.48	A	C
ATOM	1985	C	PRO	A	372	232.227	-77.848	100.593	1.00	59.74	A	C
ATOM	1986	O	PRO	A	372	233.424	-77.896	100.753	1.00	60.73	A	O
ATOM	1987	N	MET	A	373	231.685	-77.356	99.497	1.00	66.48	A	N
ATOM	1988	CA	MET	A	373	232.482	-76.838	98.412	1.00	72.53	A	C
ATOM	1989	CB	MET	A	373	231.763	-77.051	97.082	1.00	78.23	A	C
ATOM	1990	CG	MET	A	373	232.541	-77.969	96.165	1.00	91.60	A	C
ATOM	1991	SD	MET	A	373	231.857	-78.033	94.463	1.00	92.28	A	S
ATOM	1992	CE	MET	A	373	230.337	-78.924	94.769	1.00	97.23	A	C
ATOM	1993	C	MET	A	373	232.631	-75.339	98.682	1.00	69.48	A	C
ATOM	1994	O	MET	A	373	231.861	-74.740	99.424	1.00	71.05	A	O
ATOM	1995	N	LEU	A	374	233.618	-74.722	98.060	1.00	66.97	A	N
ATOM	1996	CA	LEU	A	374	233.847	-73.303	98.261	1.00	65.90	A	C
ATOM	1997	CB	LEU	A	374	235.155	-72.857	97.562	1.00	58.73	A	C
ATOM	1998	CG	LEU	A	374	236.446	-73.311	98.258	1.00	51.64	A	C
ATOM	1999	CD1	LEU	A	374	237.625	-73.104	97.321	1.00	47.33	A	C
ATOM	2000	CD2	LEU	A	374	236.629	-72.531	99.548	1.00	52.27	A	C
ATOM	2001	C	LEU	A	374	232.660	-72.469	97.798	1.00	67.13	A	C
ATOM	2002	O	LEU	A	374	232.500	-71.320	98.219	1.00	75.20	A	O
ATOM	2003	N	ARG	A	375	231.814	-73.025	96.939	1.00	67.09	A	N
ATOM	2004	CA	ARG	A	375	230.654	-72.254	96.482	1.00	63.14	A	C
ATOM	2005	CB	ARG	A	375	230.122	-72.780	95.162	1.00	60.43	A	C
ATOM	2006	C	ARG	A	375	229.561	-72.275	97.541	1.00	63.36	A	C
ATOM	2007	O	ARG	A	375	228.882	-71.261	97.734	1.00	64.17	A	O
ATOM	2008	N	GLU	A	376	229.413	-73.397	98.245	1.00	56.91	A	N
ATOM	2009	CA	GLU	A	376	228.404	-73.501	99.306	1.00	64.22	A	C
ATOM	2010	CB	GLU	A	376	228.314	-74.947	99.815	1.00	67.11	A	C
ATOM	2011	CG	GLU	A	376	227.797	-75.921	98.783	1.00	81.78	A	C
ATOM	2012	CD	GLU	A	376	228.016	-77.372	99.187	1.00	87.25	A	C
ATOM	2013	OE1	GLU	A	376	229.137	-77.887	98.974	1.00	95.99	A	O
ATOM	2014	OE2	GLU	A	376	227.073	-78.001	99.732	1.00	98.67	A	O
ATOM	2015	C	GLU	A	376	228.791	-72.562	100.461	1.00	61.59	A	C
ATOM	2016	O	GLU	A	376	227.950	-72.145	101.275	1.00	63.73	A	O
ATOM	2017	N	VAL	A	377	230.078	-72.229	100.505	1.00	60.90	A	N
ATOM	2018	CA	VAL	A	377	230.605	-71.361	101.539	1.00	60.11	A	C
ATOM	2019	CB	VAL	A	377	232.149	-71.606	101.780	1.00	57.13	A	C
ATOM	2020	CG1	VAL	A	377	232.701	-70.591	102.788	1.00	52.18	A	C
ATOM	2021	CG2	VAL	A	377	232.364	-72.987	102.341	1.00	51.22	A	C
ATOM	2022	C	VAL	A	377	230.354	-69.928	101.140	1.00	59.92	A	C

ATOM	2023	O	VAL	A	377	229.915	-69.114	101.952	1.00	69.33	A	O
ATOM	2024	N	LEU	A	378	230.639	-69.625	99.884	1.00	54.97	A	N
ATOM	2025	CA	LEU	A	378	230.466	-68.269	99.384	1.00	57.61	A	C
ATOM	2026	CB	LEU	A	378	231.178	-68.090	98.026	1.00	55.37	A	C
ATOM	2027	CG	LEU	A	378	232.564	-67.442	97.937	1.00	56.77	A	C
ATOM	2028	CD1	LEU	A	378	232.986	-66.902	99.309	1.00	59.47	A	C
ATOM	2029	CD2	LEU	A	378	233.517	-68.445	97.421	1.00	52.34	A	C
ATOM	2030	C	LEU	A	378	228.995	-67.925	99.248	1.00	53.77	A	C
ATOM	2031	O	LEU	A	378	228.626	-66.775	99.062	1.00	56.35	A	O
ATOM	2032	N	GLU	A	379	228.144	-68.930	99.367	1.00	58.84	A	N
ATOM	2033	CA	GLU	A	379	226.708	-68.714	99.236	1.00	63.13	A	C
ATOM	2034	CB	GLU	A	379	226.101	-69.720	98.274	1.00	65.30	A	C
ATOM	2035	CG	GLU	A	379	226.567	-69.569	96.831	1.00	70.53	A	C
ATOM	2036	CD	GLU	A	379	225.831	-70.533	95.895	1.00	76.21	A	C
ATOM	2037	OE1	GLU	A	379	225.546	-71.692	96.329	1.00	70.09	A	O
ATOM	2038	OE2	GLU	A	379	225.547	-70.124	94.737	1.00	76.09	A	O
ATOM	2039	C	GLU	A	379	225.991	-68.820	100.555	1.00	60.26	A	C
ATOM	2040	O	GLU	A	379	224.963	-68.191	100.746	1.00	70.86	A	O
ATOM	2041	N	HIS	A	380	226.535	-69.606	101.468	1.00	54.34	A	N
ATOM	2042	CA	HIS	A	380	225.921	-69.775	102.771	1.00	54.61	A	C
ATOM	2043	CB	HIS	A	380	226.975	-70.234	103.793	1.00	48.39	A	C
ATOM	2044	CG	HIS	A	380	226.402	-70.617	105.121	1.00	45.24	A	C
ATOM	2045	CD2	HIS	A	380	226.402	-71.793	105.781	1.00	42.14	A	C
ATOM	2046	ND1	HIS	A	380	225.711	-69.731	105.921	1.00	51.46	A	N
ATOM	2047	CE1	HIS	A	380	225.309	-70.349	107.018	1.00	50.88	A	C
ATOM	2048	NE2	HIS	A	380	225.715	-71.604	106.957	1.00	47.24	A	N
ATOM	2049	C	HIS	A	380	225.231	-68.502	103.261	1.00	55.95	A	C
ATOM	2050	O	HIS	A	380	225.807	-67.409	103.206	1.00	60.83	A	O
ATOM	2051	N	PRO	A	381	223.970	-68.630	103.727	1.00	55.60	A	N
ATOM	2052	CD	PRO	A	381	223.229	-69.910	103.809	1.00	51.69	A	C
ATOM	2053	CA	PRO	A	381	223.147	-67.522	104.248	1.00	53.48	A	C
ATOM	2054	CB	PRO	A	381	221.997	-68.257	104.936	1.00	49.53	A	C
ATOM	2055	CG	PRO	A	381	221.820	-69.442	104.035	1.00	49.24	A	C
ATOM	2056	C	PRO	A	381	223.875	-66.545	105.212	1.00	56.98	A	C
ATOM	2057	O	PRO	A	381	223.758	-65.320	105.074	1.00	59.03	A	O
ATOM	2058	N	TRP	A	382	224.635	-67.091	106.174	1.00	54.77	A	N
ATOM	2059	CA	TRP	A	382	225.340	-66.282	107.146	1.00	55.06	A	C
ATOM	2060	CB	TRP	A	382	225.971	-67.165	108.240	1.00	54.64	A	C
ATOM	2061	CG	TRP	A	382	226.691	-66.368	109.261	1.00	55.47	A	C
ATOM	2062	CD2	TRP	A	382	228.111	-66.195	109.372	1.00	58.05	A	C
ATOM	2063	CE2	TRP	A	382	228.344	-65.342	110.476	1.00	60.80	A	C
ATOM	2064	CE3	TRP	A	382	229.210	-66.680	108.649	1.00	60.95	A	C
ATOM	2065	CD1	TRP	A	382	226.137	-65.634	110.266	1.00	58.89	A	C
ATOM	2066	NE1	TRP	A	382	227.123	-65.011	111.004	1.00	59.37	A	N
ATOM	2067	CZ2	TRP	A	382	229.632	-64.965	110.871	1.00	64.01	A	C
ATOM	2068	CZ3	TRP	A	382	230.491	-66.302	109.042	1.00	60.80	A	C
ATOM	2069	CH2	TRP	A	382	230.688	-65.458	110.140	1.00	65.05	A	C
ATOM	2070	C	TRP	A	382	226.397	-65.476	106.455	1.00	50.36	A	C
ATOM	2071	O	TRP	A	382	226.579	-64.300	106.749	1.00	56.46	A	O
ATOM	2072	N	ILE	A	383	227.094	-66.115	105.527	1.00	50.17	A	N
ATOM	2073	CA	ILE	A	383	228.163	-65.454	104.757	1.00	51.21	A	C
ATOM	2074	CB	ILE	A	383	228.914	-66.460	103.856	1.00	42.86	A	C
ATOM	2075	CG2	ILE	A	383	229.642	-65.709	102.766	1.00	42.15	A	C
ATOM	2076	CG1	ILE	A	383	229.846	-67.329	104.708	1.00	40.04	A	C
ATOM	2077	CD1	ILE	A	383	230.943	-66.520	105.429	1.00	40.46	A	C
ATOM	2078	C	ILE	A	383	227.659	-64.305	103.873	1.00	52.36	A	C
ATOM	2079	O	ILE	A	383	228.247	-63.229	103.858	1.00	51.23	A	O
ATOM	2080	N	THR	A	384	226.553	-64.533	103.166	1.00	54.23	A	N
ATOM	2081	CA	THR	A	384	225.978	-63.535	102.275	1.00	58.09	A	C
ATOM	2082	CB	THR	A	384	225.046	-64.197	101.265	1.00	57.25	A	C
ATOM	2083	OG1	THR	A	384	224.320	-65.235	101.920	1.00	65.44	A	O
ATOM	2084	CG2	THR	A	384	225.809	-64.804	100.133	1.00	59.94	A	C
ATOM	2085	C	THR	A	384	225.221	-62.436	102.988	1.00	57.62	A	C
ATOM	2086	O	THR	A	384	224.929	-61.395	102.420	1.00	61.64	A	O
ATOM	2087	N	ALA	A	385	224.911	-62.655	104.249	1.00	60.34	A	N
ATOM	2088	CA	ALA	A	385	224.195	-61.658	105.030	1.00	57.14	A	C
ATOM	2089	CB	ALA	A	385	223.197	-62.376	105.944	1.00	61.04	A	C
ATOM	2090	C	ALA	A	385	225.112	-60.735	105.867	1.00	57.68	A	C
ATOM	2091	O	ALA	A	385	224.644	-59.765	106.467	1.00	56.76	A	O
ATOM	2092	N	ASN	A	386	226.405	-61.038	105.919	1.00	57.22	A	N

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ATOM   2093  CA  ASN A 386    227.312 -60.217 106.705  1.00 59.50    A    C
ATOM   2094  CB  ASN A 386    227.751 -60.993 107.939  1.00 58.18    A    C
ATOM   2095  CG  ASN A 386    226.583 -61.313 108.874  1.00 60.78    A    C
ATOM   2096  OD1 ASN A 386    226.026 -60.419 109.536  1.00 55.54    A    O
ATOM   2097  ND2 ASN A 386    226.201 -62.591 108.923  1.00 55.70    A    N
ATOM   2098  C   ASN A 386    228.540 -59.733 105.965  1.00 55.04    A    C
ATOM   2099  O   ASN A 386    229.128 -58.723 106.336  1.00 58.67    A    O
ATOM   2100  N   SER A 387    228.903 -60.444 104.906  1.00 58.95    A    N
ATOM   2101  CA  SER A 387    230.095 -60.110 104.132  1.00 63.83    A    C
ATOM   2102  CB  SER A 387    230.472 -61.278 103.220  1.00 55.03    A    C
ATOM   2103  OG  SER A 387    231.719 -61.061 102.599  1.00 57.80    A    O
ATOM   2104  C   SER A 387    229.865 -58.867 103.278  1.00 64.86    A    C
ATOM   2105  O   SER A 387    228.745 -58.607 102.826  1.00 68.20    A    O
ATOM   2106  N   SER A 388    230.916 -58.091 103.063  1.00 67.77    A    N
ATOM   2107  CA  SER A 388    230.786 -56.912 102.251  1.00 71.39    A    C
ATOM   2108  CB  SER A 388    231.430 -55.722 102.969  1.00 71.24    A    C
ATOM   2109  OG  SER A 388    232.815 -55.916 103.141  1.00 79.50    A    O
ATOM   2110  C   SER A 388    231.403 -57.150 100.872  1.00 71.24    A    C
ATOM   2111  O   SER A 388    231.024 -56.501  99.909  1.00 76.22    A    O
ATOM   2112  N   LYS A 389    232.336 -58.091 100.767  1.00 70.18    A    N
ATOM   2113  CA  LYS A 389    232.951 -58.347  99.475  1.00 67.46    A    C
ATOM   2114  CB  LYS A 389    234.459 -58.686  99.667  1.00 49.89    A    C
ATOM   2115  C   LYS A 389    232.216 -59.459  98.688  1.00 68.81    A    C
ATOM   2116  O   LYS A 389    231.441 -60.236  99.337  1.00 76.61    A    O
ATOM   2117  OXT LYS A 389    232.453 -59.564  97.435  1.00 76.72    A    O
ATOM   2118  PB  ADP S 531    257.416 -68.553 107.649  1.00 34.84    S    P
ATOM   2119  O1B ADP S 531    258.545 -67.776 107.191  1.00 50.81    S    O
ATOM   2120  O2B ADP S 531    257.209 -69.880 106.879  1.00 48.35    S    O
ATOM   2121  O3B ADP S 531    257.422 -68.756 109.226  1.00 53.79    S    O
ATOM   2122  PA  ADP S 531    256.077 -66.204 106.616  1.00 35.25    S    P
ATOM   2123  O1A ADP S 531    256.842 -66.123 105.373  1.00 33.66    S    O
ATOM   2124  O2A ADP S 531    254.551 -65.860 106.461  1.00 54.13    S    O
ATOM   2125  O3A ADP S 531    256.162 -67.643 107.261  1.00 62.78    S    O
ATOM   2126  O5* ADP S 531    256.892 -65.243 107.657  1.00 48.32    S    O
ATOM   2127  C5* ADP S 531    256.442 -65.218 109.085  1.00 61.70    S    C
ATOM   2128  C4* ADP S 531    255.856 -63.898 109.556  1.00 46.54    S    C
ATOM   2129  O4* ADP S 531    256.542 -62.868 108.818  1.00 44.98    S    O
ATOM   2130  C3* ADP S 531    254.372 -63.620 109.292  1.00 37.55    S    C
ATOM   2131  O3* ADP S 531    253.658 -64.161 110.347  1.00 46.23    S    O
ATOM   2132  C2* ADP S 531    254.337 -62.080 109.181  1.00 46.36    S    C
ATOM   2133  O2* ADP S 531    254.148 -61.399 110.423  1.00 42.59    S    O
ATOM   2134  C1* ADP S 531    255.710 -61.716 108.597  1.00 43.16    S    C
ATOM   2135  N9  ADP S 531    255.666 -61.436 107.162  1.00 48.23    S    N
ATOM   2136  C8  ADP S 531    255.946 -62.302 106.136  1.00 47.43    S    C
ATOM   2137  N7  ADP S 531    255.811 -61.734 104.897  1.00 42.83    S    N
ATOM   2138  C5  ADP S 531    255.418 -60.464 105.177  1.00 40.36    S    C
ATOM   2139  C6  ADP S 531    255.122 -59.337 104.279  1.00 44.75    S    C
ATOM   2140  N6  ADP S 531    255.151 -59.400 102.949  1.00 22.67    S    N
ATOM   2141  N1  ADP S 531    254.762 -58.153 104.964  1.00 40.38    S    N
ATOM   2142  C2  ADP S 531    254.725 -58.057 106.364  1.00 50.55    S    C
ATOM   2143  N3  ADP S 531    254.992 -59.070 107.188  1.00 51.07    S    N
ATOM   2144  C4  ADP S 531    255.351 -60.245 106.574  1.00 46.49    S    C
ATOM   2145  MG  MG2 X   1    254.502 -68.175 108.413  1.00 47.20    X    MG
ATOM   2146  MG  MG2 X   2    255.864 -71.389 106.282  1.00 52.14    X    MG
ATOM   2147  OH2 WAT W   1    264.531 -71.881  94.078  1.00 38.88    W    O
ATOM   2148  OH2 WAT W   2    242.403 -78.272 113.237  1.00 54.89    W    O
ATOM   2149  OH2 WAT W   3    232.705 -62.634 117.460  1.00 37.08    W    O
ATOM   2150  OH2 WAT W   4    251.977 -73.020 102.685  1.00 62.00    W    O
ATOM   2151  OH2 WAT W   5    275.163 -72.604  97.774  1.00 53.95    W    O
ATOM   2152  OH2 WAT W   6    232.526 -85.909 111.573  1.00 35.05    W    O
ATOM   2153  OH2 WAT W   7    259.170 -71.102 103.608  1.00 40.42    W    O
ATOM   2154  OH2 WAT W   8    249.904 -55.205  99.315  1.00 26.87    W    O
ATOM   2155  OH2 WAT W   9    229.701 -63.236 117.265  1.00 25.50    W    O
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Fig. 6

Table B

ATOM	1	CB	SER	A	123	174.078	193.853	20.627	1.00	33.78	A	C
ATOM	2	OG	SER	A	123	173.358	193.080	21.584	1.00	34.86	A	O
ATOM	3	C	SER	A	123	173.331	195.751	21.954	1.00	32.28	A	C
ATOM	4	O	SER	A	123	174.318	196.187	22.580	1.00	32.38	A	O
ATOM	5	N	SER	A	123	174.192	196.109	19.556	1.00	32.09	A	N
ATOM	6	CA	SER	A	123	173.449	195.246	20.532	1.00	33.80	A	C
ATOM	7	N	LYS	A	124	172.107	195.682	22.463	1.00	30.56	A	N
ATOM	8	CA	LYS	A	124	171.860	196.059	23.849	1.00	31.07	A	C
ATOM	9	CB	LYS	A	124	170.483	196.727	24.005	1.00	31.64	A	C
ATOM	10	CG	LYS	A	124	170.231	197.847	23.021	1.00	33.77	A	C
ATOM	11	CD	LYS	A	124	168.734	198.157	22.847	1.00	35.14	A	C
ATOM	12	CE	LYS	A	124	168.571	198.989	21.582	1.00	38.52	A	C
ATOM	13	NZ	LYS	A	124	167.170	199.182	21.123	1.00	40.74	A	N
ATOM	14	C	LYS	A	124	171.929	194.785	24.714	1.00	30.29	A	C
ATOM	15	O	LYS	A	124	171.724	194.845	25.913	1.00	30.99	A	O
ATOM	16	N	LYS	A	125	172.256	193.646	24.102	1.00	30.71	A	N
ATOM	17	CA	LYS	A	125	172.352	192.375	24.835	1.00	29.50	A	C
ATOM	18	CB	LYS	A	125	171.942	191.210	23.951	1.00	32.42	A	C
ATOM	19	CG	LYS	A	125	170.496	191.147	23.609	1.00	35.74	A	C
ATOM	20	CD	LYS	A	125	170.221	189.915	22.777	1.00	38.96	A	C
ATOM	21	CE	LYS	A	125	168.757	189.905	22.351	1.00	44.54	A	C
ATOM	22	NZ	LYS	A	125	168.305	188.576	21.807	1.00	44.21	A	N
ATOM	23	C	LYS	A	125	173.728	192.027	25.381	1.00	26.48	A	C
ATOM	24	O	LYS	A	125	174.769	192.438	24.859	1.00	24.13	A	O
ATOM	25	N	ARG	A	126	173.713	191.215	26.421	1.00	24.15	A	N
ATOM	26	CA	ARG	A	126	174.952	190.756	27.020	1.00	22.33	A	C
ATOM	27	CB	ARG	A	126	174.636	189.835	28.191	1.00	21.13	A	C
ATOM	28	CG	ARG	A	126	175.841	189.331	28.897	1.00	18.73	A	C
ATOM	29	CD	ARG	A	126	175.395	188.263	29.847	1.00	19.74	A	C
ATOM	30	NE	ARG	A	126	176.552	187.628	30.420	1.00	16.73	A	N
ATOM	31	CZ	ARG	A	126	176.503	186.741	31.394	1.00	17.59	A	C
ATOM	32	NH1	ARG	A	126	175.331	186.391	31.902	1.00	16.71	A	N
ATOM	33	NH2	ARG	A	126	177.633	186.214	31.854	1.00	18.45	A	N
ATOM	34	C	ARG	A	126	175.752	189.995	25.943	1.00	22.44	A	C
ATOM	35	O	ARG	A	126	175.252	189.077	25.296	1.00	20.29	A	O
ATOM	36	N	GLN	A	127	176.997	190.406	25.763	1.00	21.10	A	N
ATOM	37	CA	GLN	A	127	177.904	189.815	24.787	1.00	19.12	A	C
ATOM	38	CB	GLN	A	127	178.707	190.934	24.102	1.00	18.99	A	C
ATOM	39	CG	GLN	A	127	177.842	191.925	23.355	1.00	15.64	A	C
ATOM	40	CD	GLN	A	127	177.154	191.297	22.162	1.00	17.04	A	C
ATOM	41	OE1	GLN	A	127	177.748	191.151	21.093	1.00	21.45	A	O
ATOM	42	NE2	GLN	A	127	175.902	190.912	22.339	1.00	20.66	A	N
ATOM	43	C	GLN	A	127	178.861	188.861	25.496	1.00	17.70	A	C
ATOM	44	O	GLN	A	127	179.049	188.941	26.715	1.00	13.46	A	O
ATOM	45	N	TRP	A	128	179.460	187.956	24.735	1.00	16.62	A	N
ATOM	46	CA	TRP	A	128	180.411	187.014	25.303	1.00	14.25	A	C
ATOM	47	CB	TRP	A	128	180.890	186.029	24.237	1.00	13.22	A	C
ATOM	48	CG	TRP	A	128	179.858	185.060	23.779	1.00	9.34	A	C
ATOM	49	CD2	TRP	A	128	179.264	184.022	24.557	1.00	13.44	A	C
ATOM	50	CE2	TRP	A	128	178.396	183.304	23.704	1.00	11.84	A	C
ATOM	51	CE3	TRP	A	128	179.389	183.618	25.899	1.00	15.05	A	C
ATOM	52	CD1	TRP	A	128	179.338	184.945	22.529	1.00	11.79	A	C
ATOM	53	NE1	TRP	A	128	178.460	183.893	22.469	1.00	12.24	A	N
ATOM	54	CZ2	TRP	A	128	177.648	182.204	24.146	1.00	10.99	A	C
ATOM	55	CZ3	TRP	A	128	178.646	182.523	26.336	1.00	15.81	A	C
ATOM	56	CH2	TRP	A	128	177.789	181.828	25.457	1.00	13.35	A	C
ATOM	57	C	TRP	A	128	181.611	187.777	25.855	1.00	16.17	A	C
ATOM	58	O	TRP	A	128	181.885	188.903	25.457	1.00	17.48	A	O
ATOM	59	N	ALA	A	129	182.306	187.146	26.790	1.00	17.52	A	N
ATOM	60	CA	ALA	A	129	183.501	187.695	27.415	1.00	17.26	A	C
ATOM	61	CB	ALA	A	129	183.129	188.595	28.576	1.00	8.15	A	C
ATOM	62	C	ALA	A	129	184.303	186.478	27.906	1.00	17.06	A	C
ATOM	63	O	ALA	A	129	183.733	185.426	28.198	1.00	17.77	A	O

ATOM	64	N	LEU	A	130	185.618	186.620	27.979	1.00	16.79	A	N
ATOM	65	CA	LEU	A	130	186.479	185.540	28.425	1.00	19.53	A	C
ATOM	66	CB	LEU	A	130	187.943	186.006	28.392	1.00	19.86	A	C
ATOM	67	CG	LEU	A	130	189.050	184.967	28.619	1.00	22.85	A	C
ATOM	68	CD1	LEU	A	130	188.897	183.839	27.604	1.00	17.77	A	C
ATOM	69	CD2	LEU	A	130	190.429	185.631	28.492	1.00	16.04	A	C
ATOM	70	C	LEU	A	130	186.090	185.081	29.834	1.00	21.19	A	C
ATOM	71	O	LEU	A	130	186.080	183.885	30.121	1.00	24.25	A	O
ATOM	72	N	GLU	A	131	185.756	186.032	30.705	1.00	23.78	A	N
ATOM	73	CA	GLU	A	131	185.349	185.729	32.082	1.00	25.83	A	C
ATOM	74	CB	GLU	A	131	184.952	187.016	32.834	1.00	30.42	A	C
ATOM	75	CG	GLU	A	131	186.005	188.110	32.945	1.00	42.06	A	C
ATOM	76	CD	GLU	A	131	186.135	188.977	31.686	1.00	46.89	A	C
ATOM	77	OE1	GLU	A	131	185.319	188.822	30.747	1.00	51.89	A	O
ATOM	78	OE2	GLU	A	131	187.058	189.821	31.640	1.00	50.51	A	O
ATOM	79	C	GLU	A	131	184.146	184.751	32.145	1.00	25.30	A	C
ATOM	80	O	GLU	A	131	183.790	184.281	33.227	1.00	21.67	A	O
ATOM	81	N	ASP	A	132	183.503	184.473	31.008	1.00	22.51	A	N
ATOM	82	CA	ASP	A	132	182.364	183.565	30.989	1.00	22.54	A	C
ATOM	83	CB	ASP	A	132	181.458	183.825	29.782	1.00	24.79	A	C
ATOM	84	CG	ASP	A	132	180.631	185.120	29.908	1.00	28.99	A	C
ATOM	85	OD1	ASP	A	132	180.136	185.417	31.025	1.00	29.67	A	O
ATOM	86	OD2	ASP	A	132	180.450	185.824	28.873	1.00	26.45	A	O
ATOM	87	C	ASP	A	132	182.752	182.087	30.966	1.00	21.99	A	C
ATOM	88	O	ASP	A	132	181.925	181.226	31.267	1.00	22.12	A	O
ATOM	89	N	PHE	A	133	183.998	181.781	30.625	1.00	23.02	A	N
ATOM	90	CA	PHE	A	133	184.411	180.378	30.554	1.00	22.89	A	C
ATOM	91	CB	PHE	A	133	184.812	179.998	29.111	1.00	18.64	A	C
ATOM	92	CG	PHE	A	133	183.901	180.565	28.039	1.00	17.41	A	C
ATOM	93	CD1	PHE	A	133	184.042	181.884	27.616	1.00	15.80	A	C
ATOM	94	CD2	PHE	A	133	182.904	179.783	27.456	1.00	16.46	A	C
ATOM	95	CE1	PHE	A	133	183.215	182.414	26.637	1.00	14.66	A	C
ATOM	96	CE2	PHE	A	133	182.063	180.305	26.466	1.00	15.10	A	C
ATOM	97	CZ	PHE	A	133	182.224	181.626	26.060	1.00	18.42	A	C
ATOM	98	C	PHE	A	133	185.557	179.984	31.484	1.00	22.91	A	C
ATOM	99	O	PHE	A	133	186.466	180.766	31.755	1.00	24.66	A	O
ATOM	100	N	GLU	A	134	185.484	178.767	32.005	1.00	22.49	A	N
ATOM	101	CA	GLU	A	134	186.566	178.248	32.814	1.00	21.74	A	C
ATOM	102	CB	GLU	A	134	186.054	177.264	33.870	1.00	23.93	A	C
ATOM	103	CG	GLU	A	134	185.401	177.912	35.088	1.00	29.62	A	C
ATOM	104	CD	GLU	A	134	184.751	176.887	36.020	1.00	37.53	A	C
ATOM	105	OE1	GLU	A	134	185.460	175.983	36.533	1.00	38.84	A	O
ATOM	106	OE2	GLU	A	134	183.517	176.974	36.236	1.00	43.58	A	O
ATOM	107	C	GLU	A	134	187.313	177.528	31.695	1.00	21.49	A	C
ATOM	108	O	GLU	A	134	186.702	176.784	30.922	1.00	23.43	A	O
ATOM	109	N	ILE	A	135	188.608	177.794	31.564	1.00	19.74	A	N
ATOM	110	CA	ILE	A	135	189.425	177.197	30.524	1.00	19.08	A	C
ATOM	111	CB	ILE	A	135	190.554	178.149	30.072	1.00	22.58	A	C
ATOM	112	CG2	ILE	A	135	191.285	177.543	28.866	1.00	19.44	A	C
ATOM	113	CG1	ILE	A	135	189.990	179.541	29.762	1.00	20.52	A	C
ATOM	114	CD1	ILE	A	135	188.876	179.535	28.771	1.00	21.85	A	C
ATOM	115	C	ILE	A	135	190.099	175.941	31.044	1.00	20.74	A	C
ATOM	116	O	ILE	A	135	190.667	175.944	32.140	1.00	19.34	A	O
ATOM	117	N	GLY	A	136	190.058	174.876	30.245	1.00	19.98	A	N
ATOM	118	CA	GLY	A	136	190.688	173.629	30.637	1.00	19.38	A	C
ATOM	119	C	GLY	A	136	191.995	173.397	29.906	1.00	18.61	A	C
ATOM	120	O	GLY	A	136	192.742	174.324	29.668	1.00	20.61	A	O
ATOM	121	N	ARG	A	137	192.267	172.156	29.533	1.00	22.50	A	N
ATOM	122	CA	ARG	A	137	193.500	171.827	28.833	1.00	22.75	A	C
ATOM	123	CB	ARG	A	137	193.771	170.325	28.920	1.00	22.49	A	C
ATOM	124	CG	ARG	A	137	192.820	169.474	28.047	1.00	20.82	A	C
ATOM	125	CD	ARG	A	137	193.107	168.016	28.252	1.00	15.70	A	C
ATOM	126	NE	ARG	A	137	192.212	167.104	27.554	1.00	14.70	A	N
ATOM	127	CZ	ARG	A	137	192.299	166.784	26.266	1.00	14.90	A	C
ATOM	128	NH1	ARG	A	137	193.237	167.305	25.493	1.00	13.75	A	N
ATOM	129	NH2	ARG	A	137	191.462	165.900	25.758	1.00	13.41	A	N
ATOM	130	C	ARG	A	137	193.396	172.183	27.357	1.00	23.53	A	C
ATOM	131	O	ARG	A	137	192.316	172.425	26.840	1.00	24.10	A	O
ATOM	132	N	PRO	A	138	194.542	172.250	26.671	1.00	22.98	A	N
ATOM	133	CD	PRO	A	138	195.850	172.477	27.313	1.00	19.97	A	C

ATOM	134	CA	PRO	A	138	194.613	172.552	25.237	1.00	22.67	A	C
ATOM	135	CB	PRO	A	138	196.116	172.791	25.007	1.00	21.39	A	C
ATOM	136	CG	PRO	A	138	196.570	173.354	26.295	1.00	19.67	A	C
ATOM	137	C	PRO	A	138	194.135	171.275	24.497	1.00	23.48	A	C
ATOM	138	O	PRO	A	138	194.528	170.147	24.876	1.00	21.67	A	O
ATOM	139	N	LEU	A	139	193.297	171.435	23.471	1.00	19.70	A	N
ATOM	140	CA	LEU	A	139	192.809	170.281	22.716	1.00	19.33	A	C
ATOM	141	CB	LEU	A	139	191.340	170.454	22.318	1.00	19.32	A	C
ATOM	142	CG	LEU	A	139	190.349	170.509	23.473	1.00	18.46	A	C
ATOM	143	CD1	LEU	A	139	188.966	170.866	22.964	1.00	16.26	A	C
ATOM	144	CD2	LEU	A	139	190.342	169.178	24.163	1.00	15.61	A	C
ATOM	145	C	LEU	A	139	193.636	170.125	21.454	1.00	18.97	A	C
ATOM	146	O	LEU	A	139	193.714	169.045	20.883	1.00	20.68	A	O
ATOM	147	N	GLY	A	140	194.256	171.215	21.026	1.00	19.57	A	N
ATOM	148	CA	GLY	A	140	195.056	171.181	19.825	1.00	16.45	A	C
ATOM	149	C	GLY	A	140	195.821	172.461	19.630	1.00	18.41	A	C
ATOM	150	O	GLY	A	140	195.560	173.469	20.280	1.00	17.66	A	O
ATOM	151	N	LYS	A	141	196.778	172.413	18.713	1.00	23.54	A	N
ATOM	152	CA	LYS	A	141	197.635	173.547	18.399	1.00	25.64	A	C
ATOM	153	CB	LYS	A	141	199.103	173.104	18.473	1.00	29.50	A	C
ATOM	154	CG	LYS	A	141	200.101	174.192	18.080	1.00	37.58	A	C
ATOM	155	CD	LYS	A	141	201.550	173.744	18.187	1.00	42.29	A	C
ATOM	156	CE	LYS	A	141	202.483	174.918	17.891	1.00	46.12	A	C
ATOM	157	NZ	LYS	A	141	203.914	174.481	17.890	1.00	49.84	A	N
ATOM	158	C	LYS	A	141	197.313	174.071	16.995	1.00	26.94	A	C
ATOM	159	O	LYS	A	141	197.578	173.409	15.986	1.00	26.47	A	O
ATOM	160	N	GLY	A	142	196.724	175.256	16.938	1.00	26.51	A	N
ATOM	161	CA	GLY	A	142	196.392	175.839	15.656	1.00	26.65	A	C
ATOM	162	C	GLY	A	142	197.515	176.753	15.234	1.00	26.71	A	C
ATOM	163	O	GLY	A	142	198.384	177.086	16.052	1.00	26.93	A	O
ATOM	164	N	LYS	A	143	197.501	177.158	13.969	1.00	24.67	A	N
ATOM	165	CA	LYS	A	143	198.529	178.037	13.452	1.00	22.25	A	C
ATOM	166	CB	LYS	A	143	198.362	178.220	11.925	1.00	25.89	A	C
ATOM	167	CG	LYS	A	143	199.535	178.982	11.307	1.00	30.09	A	C
ATOM	168	CD	LYS	A	143	199.516	179.060	9.792	1.00	35.88	A	C
ATOM	169	CE	LYS	A	143	200.619	180.037	9.330	1.00	41.66	A	C
ATOM	170	NZ	LYS	A	143	200.871	180.206	7.857	1.00	42.97	A	N
ATOM	171	C	LYS	A	143	198.554	179.404	14.160	1.00	22.22	A	C
ATOM	172	O	LYS	A	143	199.641	179.921	14.425	1.00	22.44	A	O
ATOM	173	N	PHE	A	144	197.394	179.986	14.477	1.00	20.35	A	N
ATOM	174	CA	PHE	A	144	197.370	181.311	15.130	1.00	21.42	A	C
ATOM	175	CB	PHE	A	144	196.429	182.258	14.362	1.00	17.68	A	C
ATOM	176	CG	PHE	A	144	196.798	182.429	12.896	1.00	22.16	A	C
ATOM	177	CD1	PHE	A	144	196.541	181.421	11.959	1.00	20.33	A	C
ATOM	178	CD2	PHE	A	144	197.460	183.574	12.464	1.00	23.47	A	C
ATOM	179	CE1	PHE	A	144	196.944	181.564	10.624	1.00	20.91	A	C
ATOM	180	CE2	PHE	A	144	197.864	183.716	11.128	1.00	21.10	A	C
ATOM	181	CZ	PHE	A	144	197.606	182.708	10.213	1.00	18.55	A	C
ATOM	182	C	PHE	A	144	197.001	181.263	16.626	1.00	20.47	A	C
ATOM	183	O	PHE	A	144	196.668	182.283	17.246	1.00	20.98	A	O
ATOM	184	N	GLY	A	145	197.094	180.072	17.208	1.00	18.58	A	N
ATOM	185	CA	GLY	A	145	196.786	179.915	18.616	1.00	19.23	A	C
ATOM	186	C	GLY	A	145	196.229	178.538	18.922	1.00	20.99	A	C
ATOM	187	O	GLY	A	145	195.911	177.756	18.016	1.00	21.28	A	O
ATOM	188	N	ASN	A	146	196.100	178.233	20.204	1.00	20.66	A	N
ATOM	189	CA	ASN	A	146	195.574	176.938	20.598	1.00	21.26	A	C
ATOM	190	CB	ASN	A	146	196.140	176.544	21.964	1.00	24.59	A	C
ATOM	191	CG	ASN	A	146	197.638	176.352	21.939	1.00	27.16	A	C
ATOM	192	OD1	ASN	A	146	198.205	175.853	20.956	1.00	32.36	A	O
ATOM	193	ND2	ASN	A	146	198.292	176.737	23.015	1.00	27.51	A	N
ATOM	194	C	ASN	A	146	194.056	176.878	20.683	1.00	20.53	A	C
ATOM	195	O	ASN	A	146	193.370	177.902	20.676	1.00	20.90	A	O
ATOM	196	N	VAL	A	147	193.540	175.658	20.740	1.00	18.03	A	N
ATOM	197	CA	VAL	A	147	192.121	175.430	20.922	1.00	14.64	A	C
ATOM	198	CB	VAL	A	147	191.528	174.515	19.799	1.00	13.96	A	C
ATOM	199	CG1	VAL	A	147	190.053	174.217	20.092	1.00	10.05	A	C
ATOM	200	CG2	VAL	A	147	191.669	175.213	18.439	1.00	8.41	A	C
ATOM	201	C	VAL	A	147	192.142	174.746	22.301	1.00	16.21	A	C
ATOM	202	O	VAL	A	147	192.897	173.783	22.523	1.00	14.13	A	O
ATOM	203	N	TYR	A	148	191.375	175.299	23.242	1.00	14.89	A	N

ATOM	204	CA	TYR A 148	191.315 174.786 24.614	1.00 14.47	A	C
ATOM	205	CB	TYR A 148	191.593 175.891 25.642	1.00 12.68	A	C
ATOM	206	CG	TYR A 148	192.910 176.619 25.491	1.00 18.66	A	C
ATOM	207	CD1	TYR A 148	193.031 177.690 24.605	1.00 16.46	A	C
ATOM	208	CE1	TYR A 148	194.243 178.347 24.434	1.00 18.77	A	C
ATOM	209	CD2	TYR A 148	194.047 176.222 26.217	1.00 15.67	A	C
ATOM	210	CE2	TYR A 148	195.269 176.880 26.050	1.00 20.14	A	C
ATOM	211	CZ	TYR A 148	195.355 177.938 25.153	1.00 18.86	A	C
ATOM	212	OH	TYR A 148	196.555 178.569 24.934	1.00 23.63	A	O
ATOM	213	C	TYR A 148	189.943 174.234 24.936	1.00 13.13	A	C
ATOM	214	O	TYR A 148	188.942 174.674 24.386	1.00 14.07	A	O
ATOM	215	N	LEU A 149	189.887 173.265 25.831	1.00 11.62	A	N
ATOM	216	CA	LEU A 149	188.600 172.753 26.223	1.00 11.86	A	C
ATOM	217	CB	LEU A 149	188.787 171.466 27.003	1.00 10.50	A	C
ATOM	218	CG	LEU A 149	187.547 170.675 27.388	1.00 12.61	A	C
ATOM	219	CD1	LEU A 149	186.695 170.364 26.182	1.00 11.20	A	C
ATOM	220	CD2	LEU A 149	188.001 169.410 28.051	1.00 11.24	A	C
ATOM	221	C	LEU A 149	188.071 173.911 27.101	1.00 13.55	A	C
ATOM	222	O	LEU A 149	188.857 174.728 27.565	1.00 12.48	A	O
ATOM	223	N	ALA A 150	186.763 174.008 27.316	1.00 14.24	A	N
ATOM	224	CA	ALA A 150	186.227 175.102 28.120	1.00 15.20	A	C
ATOM	225	CB	ALA A 150	186.230 176.406 27.318	1.00 15.60	A	C
ATOM	226	C	ALA A 150	184.817 174.800 28.612	1.00 17.25	A	C
ATOM	227	O	ALA A 150	184.122 173.929 28.083	1.00 18.30	A	O
ATOM	228	N	ARG A 151	184.398 175.532 29.629	1.00 17.29	A	N
ATOM	229	CA	ARG A 151	183.091 175.334 30.215	1.00 19.70	A	C
ATOM	230	CB	ARG A 151	183.245 174.479 31.492	1.00 20.02	A	C
ATOM	231	CG	ARG A 151	181.977 174.102 32.258	1.00 26.58	A	C
ATOM	232	CD	ARG A 151	182.321 173.557 33.686	1.00 30.64	A	C
ATOM	233	NE	ARG A 151	183.235 172.405 33.673	1.00 32.15	A	N
ATOM	234	CZ	ARG A 151	182.900 171.151 33.348	1.00 33.18	A	C
ATOM	235	NH1	ARG A 151	181.644 170.851 33.004	1.00 33.09	A	N
ATOM	236	NH2	ARG A 151	183.831 170.190 33.362	1.00 31.48	A	N
ATOM	237	C	ARG A 151	182.516 176.707 30.518	1.00 20.61	A	C
ATOM	238	O	ARG A 151	183.158 177.560 31.163	1.00 19.62	A	O
ATOM	239	N	GLU A 152	181.315 176.939 30.006	1.00 21.84	A	N
ATOM	240	CA	GLU A 152	180.633 178.196 30.264	1.00 21.85	A	C
ATOM	241	CB	GLU A 152	179.401 178.298 29.377	1.00 26.06	A	C
ATOM	242	CG	GLU A 152	178.766 179.690 29.289	1.00 28.31	A	C
ATOM	243	CD	GLU A 152	177.996 180.078 30.543	1.00 32.60	A	C
ATOM	244	OE1	GLU A 152	178.576 180.804 31.391	1.00 33.50	A	O
ATOM	245	OE2	GLU A 152	176.821 179.650 30.679	1.00 29.24	A	O
ATOM	246	C	GLU A 152	180.252 178.091 31.742	1.00 21.10	A	C
ATOM	247	O	GLU A 152	179.661 177.102 32.172	1.00 19.62	A	O
ATOM	248	N	LYS A 153	180.613 179.114 32.504	1.00 21.06	A	N
ATOM	249	CA	LYS A 153	180.366 179.156 33.933	1.00 20.90	A	C
ATOM	250	CB	LYS A 153	180.996 180.417 34.513	1.00 20.37	A	C
ATOM	251	CG	LYS A 153	182.501 180.458 34.440	1.00 22.17	A	C
ATOM	252	CD	LYS A 153	183.063 181.720 35.091	1.00 21.22	A	C
ATOM	253	CE	LYS A 153	184.568 181.658 35.002	1.00 22.77	A	C
ATOM	254	NZ	LYS A 153	185.178 182.877 35.572	1.00 24.11	A	N
ATOM	255	C	LYS A 153	178.927 179.048 34.421	1.00 21.26	A	C
ATOM	256	O	LYS A 153	178.649 178.362 35.390	1.00 25.58	A	O
ATOM	257	N	GLN A 154	177.982 179.704 33.786	1.00 23.03	A	N
ATOM	258	CA	GLN A 154	176.639 179.579 34.330	1.00 23.96	A	C
ATOM	259	CB	GLN A 154	175.744 180.686 33.800	1.00 23.79	A	C
ATOM	260	CG	GLN A 154	176.125 182.053 34.288	1.00 24.55	A	C
ATOM	261	CD	GLN A 154	175.243 183.133 33.709	1.00 24.55	A	C
ATOM	262	OE1	GLN A 154	175.674 184.283 33.617	1.00 23.87	A	O
ATOM	263	NE2	GLN A 154	173.998 182.779 33.309	1.00 22.50	A	N
ATOM	264	C	GLN A 154	175.951 178.229 34.086	1.00 24.10	A	C
ATOM	265	O	GLN A 154	175.345 177.675 34.996	1.00 25.34	A	O
ATOM	266	N	SER A 155	176.018 177.700 32.871	1.00 22.36	A	N
ATOM	267	CA	SER A 155	175.351 176.441 32.585	1.00 21.24	A	C
ATOM	268	CB	SER A 155	174.790 176.517 31.180	1.00 20.38	A	C
ATOM	269	OG	SER A 155	175.875 176.607 30.282	1.00 22.24	A	O
ATOM	270	C	SER A 155	176.234 175.182 32.691	1.00 23.66	A	C
ATOM	271	O	SER A 155	175.725 174.048 32.677	1.00 20.04	A	O
ATOM	272	N	LYS A 156	177.549 175.406 32.789	1.00 23.61	A	N
ATOM	273	CA	LYS A 156	178.572 174.358 32.849	1.00 24.47	A	C

ATOM	274	CB	LYS	A	156	178.350	173.467	34.065	1.00	25.24	A	C
ATOM	275	CG	LYS	A	156	178.523	174.254	35.368	1.00	32.64	A	C
ATOM	276	CD	LYS	A	156	178.309	173.358	36.552	1.00	35.73	A	C
ATOM	277	CE	LYS	A	156	178.506	174.079	37.870	1.00	41.50	A	C
ATOM	278	NZ	LYS	A	156	178.457	173.059	38.978	1.00	42.75	A	N
ATOM	279	C	LYS	A	156	178.634	173.543	31.548	1.00	22.03	A	C
ATOM	280	O	LYS	A	156	179.131	172.417	31.509	1.00	22.31	A	O
ATOM	281	N	PHE	A	157	178.152	174.152	30.472	1.00	20.94	A	N
ATOM	282	CA	PHE	A	157	178.180	173.530	29.162	1.00	19.88	A	C
ATOM	283	CB	PHE	A	157	177.370	174.367	28.174	1.00	21.87	A	C
ATOM	284	CG	PHE	A	157	177.209	173.735	26.840	1.00	22.62	A	C
ATOM	285	CD1	PHE	A	157	176.501	172.546	26.704	1.00	26.84	A	C
ATOM	286	CD2	PHE	A	157	177.745	174.336	25.707	1.00	24.18	A	C
ATOM	287	CE1	PHE	A	157	176.326	171.957	25.448	1.00	27.13	A	C
ATOM	288	CE2	PHE	A	157	177.576	173.763	24.446	1.00	24.84	A	C
ATOM	289	CZ	PHE	A	157	176.868	172.574	24.316	1.00	26.19	A	C
ATOM	290	C	PHE	A	157	179.645	173.447	28.708	1.00	20.86	A	C
ATOM	291	O	PHE	A	157	180.394	174.451	28.739	1.00	16.68	A	O
ATOM	292	N	ILE	A	158	180.056	172.243	28.316	1.00	18.62	A	N
ATOM	293	CA	ILE	A	158	181.412	171.997	27.862	1.00	17.65	A	C
ATOM	294	CB	ILE	A	158	181.818	170.521	28.156	1.00	21.22	A	C
ATOM	295	CG2	ILE	A	158	183.120	170.183	27.472	1.00	20.54	A	C
ATOM	296	CG1	ILE	A	158	181.998	170.339	29.675	1.00	25.44	A	C
ATOM	297	CD1	ILE	A	158	181.751	168.898	30.193	1.00	32.22	A	C
ATOM	298	C	ILE	A	158	181.502	172.306	26.363	1.00	19.32	A	C
ATOM	299	O	ILE	A	158	180.622	171.940	25.588	1.00	21.25	A	O
ATOM	300	N	LEU	A	159	182.544	173.021	25.958	1.00	19.68	A	N
ATOM	301	CA	LEU	A	159	182.729	173.365	24.552	1.00	18.03	A	C
ATOM	302	CB	LEU	A	159	181.915	174.625	24.214	1.00	18.70	A	C
ATOM	303	CG	LEU	A	159	181.855	175.726	25.275	1.00	18.81	A	C
ATOM	304	CD1	LEU	A	159	183.137	176.522	25.197	1.00	25.89	A	C
ATOM	305	CD2	LEU	A	159	180.667	176.644	25.065	1.00	15.33	A	C
ATOM	306	C	LEU	A	159	184.218	173.553	24.263	1.00	16.64	A	C
ATOM	307	O	LEU	A	159	185.054	173.211	25.099	1.00	10.64	A	O
ATOM	308	N	ALA	A	160	184.562	174.069	23.084	1.00	14.09	A	N
ATOM	309	CA	ALA	A	160	185.981	174.271	22.742	1.00	14.90	A	C
ATOM	310	CB	ALA	A	160	186.371	173.394	21.574	1.00	11.94	A	C
ATOM	311	C	ALA	A	160	186.230	175.736	22.420	1.00	15.35	A	C
ATOM	312	O	ALA	A	160	185.419	176.377	21.777	1.00	16.22	A	O
ATOM	313	N	LEU	A	161	187.348	176.277	22.876	1.00	17.51	A	N
ATOM	314	CA	LEU	A	161	187.656	177.685	22.636	1.00	17.81	A	C
ATOM	315	CB	LEU	A	161	187.959	178.379	23.958	1.00	19.09	A	C
ATOM	316	CG	LEU	A	161	187.661	179.882	24.003	1.00	24.28	A	C
ATOM	317	CD1	LEU	A	161	186.190	180.085	23.715	1.00	19.74	A	C
ATOM	318	CD2	LEU	A	161	188.020	180.482	25.396	1.00	26.64	A	C
ATOM	319	C	LEU	A	161	188.857	177.829	21.697	1.00	18.94	A	C
ATOM	320	O	LEU	A	161	189.984	177.506	22.070	1.00	15.15	A	O
ATOM	321	N	LYS	A	162	188.605	178.302	20.477	1.00	15.44	A	N
ATOM	322	CA	LYS	A	162	189.671	178.489	19.506	1.00	16.27	A	C
ATOM	323	CB	LYS	A	162	189.142	178.254	18.093	1.00	15.06	A	C
ATOM	324	CG	LYS	A	162	190.184	178.338	17.036	1.00	13.12	A	C
ATOM	325	CD	LYS	A	162	189.615	177.968	15.682	1.00	15.23	A	C
ATOM	326	CE	LYS	A	162	190.694	178.025	14.590	1.00	15.94	A	C
ATOM	327	NZ	LYS	A	162	190.118	177.625	13.262	1.00	21.75	A	N
ATOM	328	C	LYS	A	162	190.220	179.909	19.626	1.00	16.04	A	C
ATOM	329	O	LYS	A	162	189.486	180.863	19.427	1.00	17.16	A	O
ATOM	330	N	VAL	A	163	191.501	180.044	19.955	1.00	15.21	A	N
ATOM	331	CA	VAL	A	163	192.110	181.357	20.107	1.00	16.50	A	C
ATOM	332	CB	VAL	A	163	193.047	181.400	21.336	1.00	17.79	A	C
ATOM	333	CG1	VAL	A	163	193.563	182.816	21.546	1.00	15.20	A	C
ATOM	334	CG2	VAL	A	163	192.316	180.897	22.578	1.00	14.92	A	C
ATOM	335	C	VAL	A	163	192.938	181.758	18.888	1.00	17.82	A	C
ATOM	336	O	VAL	A	163	193.616	180.933	18.287	1.00	20.09	A	O
ATOM	337	N	LEU	A	164	192.888	183.028	18.522	1.00	18.13	A	N
ATOM	338	CA	LEU	A	164	193.670	183.509	17.387	1.00	15.87	A	C
ATOM	339	CB	LEU	A	164	192.747	183.802	16.203	1.00	18.86	A	C
ATOM	340	CG	LEU	A	164	191.903	182.603	15.752	1.00	20.75	A	C
ATOM	341	CD1	LEU	A	164	190.429	182.980	15.575	1.00	23.26	A	C
ATOM	342	CD2	LEU	A	164	192.481	182.084	14.477	1.00	19.09	A	C
ATOM	343	C	LEU	A	164	194.352	184.789	17.835	1.00	16.04	A	C

ATOM	344	O	LEU A 164	193.687 185.709 18.295	1.00 13.41	A	O
ATOM	345	N	PHE A 165	195.670 184.858 17.738	1.00 15.52	A	N
ATOM	346	CA	PHE A 165	196.340 186.082 18.141	1.00 18.33	A	C
ATOM	347	CB	PHE A 165	197.804 185.823 18.497	1.00 19.71	A	C
ATOM	348	CG	PHE A 165	197.987 185.214 19.850	1.00 26.23	A	C
ATOM	349	CD1	PHE A 165	197.826 183.840 20.033	1.00 27.06	A	C
ATOM	350	CD2	PHE A 165	198.222 186.025 20.961	1.00 28.47	A	C
ATOM	351	CE1	PHE A 165	197.899 183.281 21.298	1.00 32.07	A	C
ATOM	352	CE2	PHE A 165	198.299 185.479 22.239	1.00 31.56	A	C
ATOM	353	CZ	PHE A 165	198.133 184.104 22.411	1.00 35.02	A	C
ATOM	354	C	PHE A 165	196.228 187.062 16.989	1.00 19.49	A	C
ATOM	355	O	PHE A 165	196.610 186.742 15.857	1.00 21.60	A	O
ATOM	356	N	LYS A 166	195.674 188.242 17.277	1.00 18.17	A	N
ATOM	357	CA	LYS A 166	195.458 189.299 16.282	1.00 17.63	A	C
ATOM	358	CB	LYS A 166	194.786 190.520 16.931	1.00 16.68	A	C
ATOM	359	CG	LYS A 166	193.319 190.346 17.376	1.00 15.54	A	C
ATOM	360	CD	LYS A 166	192.703 191.672 17.826	1.00 10.39	A	C
ATOM	361	CE	LYS A 166	191.259 191.452 18.272	1.00 12.43	A	C
ATOM	362	NZ	LYS A 166	190.505 192.644 18.792	1.00 7.46	A	N
ATOM	363	C	LYS A 166	196.696 189.792 15.536	1.00 19.44	A	C
ATOM	364	O	LYS A 166	196.615 190.103 14.343	1.00 19.53	A	O
ATOM	365	N	ALA A 167	197.828 189.885 16.237	1.00 19.10	A	N
ATOM	366	CA	ALA A 167	199.068 190.369 15.628	1.00 18.82	A	C
ATOM	367	CB	ALA A 167	200.140 190.591 16.710	1.00 11.48	A	C
ATOM	368	C	ALA A 167	199.551 189.377 14.571	1.00 18.71	A	C
ATOM	369	O	ALA A 167	200.085 189.762 13.534	1.00 19.61	A	O
ATOM	370	N	GLN A 168	199.351 188.092 14.840	1.00 18.71	A	N
ATOM	371	CA	GLN A 168	199.734 187.039 13.907	1.00 18.86	A	C
ATOM	372	CB	GLN A 168	199.584 185.666 14.561	1.00 21.65	A	C
ATOM	373	CG	GLN A 168	200.584 184.664 14.014	1.00 25.64	A	C
ATOM	374	CD	GLN A 168	200.544 183.310 14.690	1.00 29.19	A	C
ATOM	375	OE1	GLN A 168	200.269 183.208 15.900	1.00 27.17	A	O
ATOM	376	NE2	GLN A 168	200.846 182.249 13.920	1.00 28.74	A	N
ATOM	377	C	GLN A 168	198.824 187.137 12.688	1.00 17.82	A	C
ATOM	378	O	GLN A 168	199.273 187.079 11.560	1.00 20.56	A	O
ATOM	379	N	LEU A 169	197.530 187.289 12.931	1.00 19.46	A	N
ATOM	380	CA	LEU A 169	196.553 187.404 11.848	1.00 19.86	A	C
ATOM	381	CB	LEU A 169	195.146 187.572 12.393	1.00 20.65	A	C
ATOM	382	CG	LEU A 169	194.514 186.370 13.052	1.00 24.58	A	C
ATOM	383	CD1	LEU A 169	193.168 186.837 13.566	1.00 23.53	A	C
ATOM	384	CD2	LEU A 169	194.396 185.189 12.069	1.00 20.67	A	C
ATOM	385	C	LEU A 169	196.802 188.604 10.961	1.00 21.12	A	C
ATOM	386	O	LEU A 169	196.533 188.564 9.761	1.00 17.39	A	O
ATOM	387	N	GLU A 170	197.261 189.697 11.564	1.00 22.51	A	N
ATOM	388	CA	GLU A 170	197.520 190.915 10.807	1.00 23.02	A	C
ATOM	389	CB	GLU A 170	197.637 192.102 11.769	1.00 22.68	A	C
ATOM	390	CG	GLU A 170	196.267 192.607 12.232	1.00 27.99	A	C
ATOM	391	CD	GLU A 170	196.294 193.330 13.579	1.00 31.84	A	C
ATOM	392	OE1	GLU A 170	197.334 193.955 13.920	1.00 33.33	A	O
ATOM	393	OE2	GLU A 170	195.256 193.278 14.285	1.00 31.22	A	O
ATOM	394	C	GLU A 170	198.762 190.753 9.949	1.00 21.03	A	C
ATOM	395	O	GLU A 170	198.739 191.068 8.757	1.00 23.09	A	O
ATOM	396	N	LYS A 171	199.826 190.220 10.535	1.00 17.25	A	N
ATOM	397	CA	LYS A 171	201.059 190.014 9.790	1.00 19.63	A	C
ATOM	398	CB	LYS A 171	202.139 189.442 10.706	1.00 21.18	A	C
ATOM	399	CG	LYS A 171	203.525 189.395 10.073	1.00 25.15	A	C
ATOM	400	CD	LYS A 171	204.574 188.898 11.054	1.00 28.24	A	C
ATOM	401	CE	LYS A 171	205.952 188.807 10.395	1.00 32.60	A	C
ATOM	402	NZ	LYS A 171	207.003 188.297 11.331	1.00 33.23	A	N
ATOM	403	C	LYS A 171	200.838 189.074 8.609	1.00 19.42	A	C
ATOM	404	O	LYS A 171	201.451 189.235 7.551	1.00 21.92	A	O
ATOM	405	N	ALA A 172	199.957 188.095 8.782	1.00 17.92	A	N
ATOM	406	CA	ALA A 172	199.666 187.126 7.720	1.00 18.61	A	C
ATOM	407	CB	ALA A 172	199.168 185.826 8.341	1.00 13.39	A	C
ATOM	408	C	ALA A 172	198.666 187.627 6.679	1.00 16.48	A	C
ATOM	409	O	ALA A 172	198.600 187.082 5.577	1.00 18.45	A	O
ATOM	410	N	GLY A 173	197.890 188.651 7.053	1.00 16.48	A	N
ATOM	411	CA	GLY A 173	196.876 189.241 6.178	1.00 17.37	A	C
ATOM	412	C	GLY A 173	195.719 188.297 5.904	1.00 18.48	A	C
ATOM	413	O	GLY A 173	195.158 188.264 4.789	1.00 17.50	A	O

ATOM	414	N	VAL	A	174	195.344	187.536	6.921	1.00	16.39	A	N
ATOM	415	CA	VAL	A	174	194.274	186.573	6.770	1.00	18.80	A	C
ATOM	416	CB	VAL	A	174	194.778	185.171	7.226	1.00	17.75	A	C
ATOM	417	CG1	VAL	A	174	195.976	184.770	6.371	1.00	17.03	A	C
ATOM	418	CG2	VAL	A	174	195.166	185.207	8.684	1.00	12.69	A	C
ATOM	419	C	VAL	A	174	193.015	186.982	7.535	1.00	19.69	A	C
ATOM	420	O	VAL	A	174	192.152	186.152	7.828	1.00	22.14	A	O
ATOM	421	N	GLU	A	175	192.900	188.282	7.801	1.00	24.29	A	N
ATOM	422	CA	GLU	A	175	191.751	188.834	8.521	1.00	25.76	A	C
ATOM	423	CB	GLU	A	175	191.902	190.351	8.799	1.00	29.22	A	C
ATOM	424	CG	GLU	A	175	193.333	190.938	8.903	1.00	38.41	A	C
ATOM	425	CD	GLU	A	175	193.998	191.112	7.548	1.00	39.97	A	C
ATOM	426	OE1	GLU	A	175	193.310	190.986	6.511	1.00	47.49	A	O
ATOM	427	OE2	GLU	A	175	195.206	191.382	7.507	1.00	46.22	A	O
ATOM	428	C	GLU	A	175	190.452	188.611	7.752	1.00	25.95	A	C
ATOM	429	O	GLU	A	175	189.423	188.313	8.337	1.00	25.42	A	O
ATOM	430	N	HIS	A	176	190.483	188.768	6.438	1.00	26.45	A	N
ATOM	431	CA	HIS	A	176	189.254	188.539	5.708	1.00	24.68	A	C
ATOM	432	CB	HIS	A	176	189.316	189.074	4.278	1.00	23.09	A	C
ATOM	433	CG	HIS	A	176	187.983	189.014	3.596	1.00	32.41	A	C
ATOM	434	CD2	HIS	A	176	187.570	188.363	2.477	1.00	34.18	A	C
ATOM	435	ND1	HIS	A	176	186.845	189.576	4.148	1.00	32.75	A	N
ATOM	436	CE1	HIS	A	176	185.796	189.266	3.406	1.00	33.74	A	C
ATOM	437	NE2	HIS	A	176	186.207	188.529	2.386	1.00	34.72	A	N
ATOM	438	C	HIS	A	176	188.848	187.062	5.703	1.00	23.32	A	C
ATOM	439	O	HIS	A	176	187.661	186.755	5.693	1.00	22.64	A	O
ATOM	440	N	GLN	A	177	189.803	186.137	5.744	1.00	21.78	A	N
ATOM	441	CA	GLN	A	177	189.432	184.721	5.774	1.00	19.85	A	C
ATOM	442	CB	GLN	A	177	190.628	183.818	5.421	1.00	21.23	A	C
ATOM	443	CG	GLN	A	177	191.173	183.994	3.977	1.00	23.08	A	C
ATOM	444	CD	GLN	A	177	192.113	185.179	3.856	1.00	26.14	A	C
ATOM	445	OE1	GLN	A	177	191.901	186.204	4.512	1.00	27.02	A	O
ATOM	446	NE2	GLN	A	177	193.161	185.056	3.012	1.00	25.09	A	N
ATOM	447	C	GLN	A	177	188.859	184.317	7.129	1.00	18.66	A	C
ATOM	448	O	GLN	A	177	188.057	183.390	7.195	1.00	18.16	A	O
ATOM	449	N	LEU	A	178	189.267	185.001	8.202	1.00	17.80	A	N
ATOM	450	CA	LEU	A	178	188.742	184.695	9.532	1.00	17.25	A	C
ATOM	451	CB	LEU	A	178	189.473	185.495	10.616	1.00	14.48	A	C
ATOM	452	CG	LEU	A	178	188.948	185.297	12.041	1.00	14.78	A	C
ATOM	453	CD1	LEU	A	178	188.822	183.792	12.391	1.00	13.65	A	C
ATOM	454	CD2	LEU	A	178	189.904	185.964	13.002	1.00	15.52	A	C
ATOM	455	C	LEU	A	178	187.257	185.050	9.569	1.00	18.82	A	C
ATOM	456	O	LEU	A	178	186.436	184.346	10.148	1.00	18.56	A	O
ATOM	457	N	ARG	A	179	186.929	186.171	8.950	1.00	17.14	A	N
ATOM	458	CA	ARG	A	179	185.570	186.637	8.893	1.00	20.36	A	C
ATOM	459	CB	ARG	A	179	185.547	188.004	8.238	1.00	24.60	A	C
ATOM	460	CG	ARG	A	179	184.191	188.581	8.190	1.00	30.51	A	C
ATOM	461	CD	ARG	A	179	184.079	189.355	6.937	1.00	34.92	A	C
ATOM	462	NE	ARG	A	179	183.602	190.700	7.192	1.00	44.42	A	N
ATOM	463	CZ	ARG	A	179	184.338	191.679	7.721	1.00	50.64	A	C
ATOM	464	NH1	ARG	A	179	185.609	191.475	8.060	1.00	53.62	A	N
ATOM	465	NH2	ARG	A	179	183.800	192.881	7.910	1.00	54.27	A	N
ATOM	466	C	ARG	A	179	184.677	185.663	8.112	1.00	20.68	A	C
ATOM	467	O	ARG	A	179	183.516	185.428	8.490	1.00	20.49	A	O
ATOM	468	N	ARG	A	180	185.211	185.102	7.027	1.00	16.87	A	N
ATOM	469	CA	ARG	A	180	184.457	184.139	6.240	1.00	16.27	A	C
ATOM	470	CB	ARG	A	180	185.145	183.851	4.880	1.00	15.64	A	C
ATOM	471	CG	ARG	A	180	185.036	184.997	3.869	1.00	19.03	A	C
ATOM	472	CD	ARG	A	180	185.243	184.593	2.394	1.00	19.17	A	C
ATOM	473	NE	ARG	A	180	186.536	183.973	2.158	1.00	22.25	A	N
ATOM	474	CZ	ARG	A	180	187.223	184.003	1.011	1.00	22.42	A	C
ATOM	475	NH1	ARG	A	180	186.778	184.633	-0.067	1.00	16.67	A	N
ATOM	476	NH2	ARG	A	180	188.390	183.384	0.949	1.00	23.03	A	N
ATOM	477	C	ARG	A	180	184.277	182.837	7.037	1.00	16.14	A	C
ATOM	478	O	ARG	A	180	183.225	182.207	6.950	1.00	17.78	A	O
ATOM	479	N	GLU	A	181	185.294	182.439	7.812	1.00	15.13	A	N
ATOM	480	CA	GLU	A	181	185.211	181.222	8.627	1.00	15.82	A	C
ATOM	481	CB	GLU	A	181	186.512	180.969	9.431	1.00	17.60	A	C
ATOM	482	CG	GLU	A	181	186.517	179.610	10.164	1.00	22.11	A	C
ATOM	483	CD	GLU	A	181	187.779	179.293	11.023	1.00	29.50	A	C

ATOM	484	OE1	GLU A 181	188.877	179.898	10.811	1.00	23.91	A	O
ATOM	485	OE2	GLU A 181	187.654	178.393	11.914	1.00	30.52	A	O
ATOM	486	C	GLU A 181	184.059	181.374	9.615	1.00	17.24	A	C
ATOM	487	O	GLU A 181	183.169	180.514	9.711	1.00	17.81	A	O
ATOM	488	N	VAL A 182	184.075	182.486	10.336	1.00	13.24	A	N
ATOM	489	CA	VAL A 182	183.056	182.746	11.323	1.00	16.10	A	C
ATOM	490	CB	VAL A 182	183.417	183.989	12.155	1.00	17.20	A	C
ATOM	491	CG1	VAL A 182	182.271	184.362	13.059	1.00	11.33	A	C
ATOM	492	CG2	VAL A 182	184.675	183.709	12.948	1.00	15.06	A	C
ATOM	493	C	VAL A 182	181.650	182.907	10.756	1.00	16.14	A	C
ATOM	494	O	VAL A 182	180.718	182.216	11.186	1.00	14.19	A	O
ATOM	495	N	GLU A 183	181.491	183.805	9.788	1.00	16.25	A	N
ATOM	496	CA	GLU A 183	180.162	184.021	9.212	1.00	17.30	A	C
ATOM	497	CB	GLU A 183	180.190	185.187	8.214	1.00	16.51	A	C
ATOM	498	CG	GLU A 183	180.630	186.499	8.842	1.00	21.63	A	C
ATOM	499	CD	GLU A 183	180.566	187.674	7.874	1.00	24.47	A	C
ATOM	500	OE1	GLU A 183	180.841	187.477	6.673	1.00	27.21	A	O
ATOM	501	OE2	GLU A 183	180.255	188.801	8.315	1.00	29.43	A	O
ATOM	502	C	GLU A 183	179.581	182.764	8.555	1.00	14.99	A	C
ATOM	503	O	GLU A 183	178.405	182.460	8.753	1.00	16.33	A	O
ATOM	504	N	ILE A 184	180.396	182.019	7.810	1.00	12.00	A	N
ATOM	505	CA	ILE A 184	179.908	180.808	7.159	1.00	10.45	A	C
ATOM	506	CB	ILE A 184	180.904	180.302	6.094	1.00	9.02	A	C
ATOM	507	CG2	ILE A 184	180.595	178.854	5.712	1.00	2.93	A	C
ATOM	508	CG1	ILE A 184	180.862	181.248	4.893	1.00	4.36	A	C
ATOM	509	CD1	ILE A 184	182.025	181.076	3.939	1.00	5.66	A	C
ATOM	510	C	ILE A 184	179.633	179.675	8.149	1.00	12.74	A	C
ATOM	511	O	ILE A 184	178.552	179.077	8.135	1.00	13.03	A	O
ATOM	512	N	GLN A 185	180.585	179.380	9.026	1.00	14.41	A	N
ATOM	513	CA	GLN A 185	180.365	178.279	9.960	1.00	15.94	A	C
ATOM	514	CB	GLN A 185	181.663	177.933	10.682	1.00	15.68	A	C
ATOM	515	CG	GLN A 185	181.684	176.556	11.281	1.00	15.22	A	C
ATOM	516	CD	GLN A 185	182.955	176.333	12.074	1.00	16.62	A	C
ATOM	517	OE1	GLN A 185	183.844	177.184	12.072	1.00	19.84	A	O
ATOM	518	NE2	GLN A 185	183.048	175.198	12.760	1.00	15.50	A	N
ATOM	519	C	GLN A 185	179.257	178.551	10.977	1.00	14.85	A	C
ATOM	520	O	GLN A 185	178.507	177.637	11.339	1.00	11.63	A	O
ATOM	521	N	SER A 186	179.134	179.798	11.424	1.00	14.21	A	N
ATOM	522	CA	SER A 186	178.102	180.102	12.421	1.00	15.30	A	C
ATOM	523	CB	SER A 186	178.265	181.527	13.028	1.00	15.24	A	C
ATOM	524	OG	SER A 186	178.146	182.584	12.086	1.00	16.11	A	O
ATOM	525	C	SER A 186	176.686	179.916	11.898	1.00	15.48	A	C
ATOM	526	O	SER A 186	175.787	179.612	12.672	1.00	20.12	A	O
ATOM	527	N	HIS A 187	176.483	180.048	10.592	1.00	15.79	A	N
ATOM	528	CA	HIS A 187	175.153	179.908	10.018	1.00	15.76	A	C
ATOM	529	CB	HIS A 187	174.964	180.942	8.914	1.00	14.22	A	C
ATOM	530	CG	HIS A 187	174.857	182.348	9.414	1.00	14.55	A	C
ATOM	531	CD2	HIS A 187	173.787	183.070	9.816	1.00	12.55	A	C
ATOM	532	ND1	HIS A 187	175.944	183.189	9.516	1.00	13.11	A	N
ATOM	533	CE1	HIS A 187	175.548	184.369	9.951	1.00	10.14	A	C
ATOM	534	NE2	HIS A 187	174.243	184.324	10.140	1.00	15.06	A	N
ATOM	535	C	HIS A 187	174.838	178.515	9.469	1.00	17.67	A	C
ATOM	536	O	HIS A 187	173.762	178.272	8.931	1.00	17.40	A	O
ATOM	537	N	LEU A 188	175.777	177.595	9.616	1.00	18.89	A	N
ATOM	538	CA	LEU A 188	175.608	176.243	9.118	1.00	16.21	A	C
ATOM	539	CB	LEU A 188	176.972	175.721	8.652	1.00	15.40	A	C
ATOM	540	CG	LEU A 188	177.339	175.433	7.185	1.00	14.79	A	C
ATOM	541	CD1	LEU A 188	176.514	176.200	6.155	1.00	14.64	A	C
ATOM	542	CD2	LEU A 188	178.805	175.738	7.024	1.00	11.29	A	C
ATOM	543	C	LEU A 188	175.047	175.408	10.266	1.00	17.59	A	C
ATOM	544	O	LEU A 188	175.382	175.630	11.423	1.00	19.21	A	O
ATOM	545	N	ARG A 189	174.174	174.458	9.955	1.00	19.36	A	N
ATOM	546	CA	ARG A 189	173.579	173.603	10.988	1.00	21.36	A	C
ATOM	547	CB	ARG A 189	172.190	174.086	11.398	1.00	22.58	A	C
ATOM	548	CG	ARG A 189	172.131	175.420	12.110	1.00	32.57	A	C
ATOM	549	CD	ARG A 189	172.277	175.274	13.621	1.00	34.83	A	C
ATOM	550	NE	ARG A 189	172.168	176.568	14.298	1.00	40.56	A	N
ATOM	551	CZ	ARG A 189	172.993	177.598	14.091	1.00	43.35	A	C
ATOM	552	NH1	ARG A 189	173.993	177.481	13.215	1.00	42.31	A	N
ATOM	553	NH2	ARG A 189	172.827	178.740	14.770	1.00	42.32	A	N

ATOM	554	C	ARG	A	189	173.423	172.219	10.415	1.00	19.45	A	C
ATOM	555	O	ARG	A	189	172.582	171.996	9.558	1.00	19.37	A	O
ATOM	556	N	HIS	A	190	174.218	171.283	10.900	1.00	16.48	A	N
ATOM	557	CA	HIS	A	190	174.148	169.936	10.388	1.00	16.32	A	C
ATOM	558	CB	HIS	A	190	174.865	169.868	9.042	1.00	13.06	A	C
ATOM	559	CG	HIS	A	190	174.848	168.517	8.403	1.00	8.96	A	C
ATOM	560	CD2	HIS	A	190	175.640	167.430	8.584	1.00	9.19	A	C
ATOM	561	ND1	HIS	A	190	173.942	168.169	7.422	1.00	9.60	A	N
ATOM	562	CE1	HIS	A	190	174.177	166.929	7.026	1.00	8.25	A	C
ATOM	563	NE2	HIS	A	190	175.202	166.456	7.717	1.00	10.48	A	N
ATOM	564	C	HIS	A	190	174.857	169.069	11.409	1.00	18.77	A	C
ATOM	565	O	HIS	A	190	175.747	169.538	12.110	1.00	19.58	A	O
ATOM	566	N	PRO	A	191	174.437	167.797	11.526	1.00	19.81	A	N
ATOM	567	CD	PRO	A	191	173.236	167.329	10.808	1.00	18.67	A	C
ATOM	568	CA	PRO	A	191	174.946	166.749	12.430	1.00	18.82	A	C
ATOM	569	CB	PRO	A	191	174.059	165.545	12.108	1.00	15.98	A	C
ATOM	570	CG	PRO	A	191	172.813	166.147	11.615	1.00	19.49	A	C
ATOM	571	C	PRO	A	191	176.422	166.383	12.239	1.00	15.63	A	C
ATOM	572	O	PRO	A	191	177.074	165.908	13.167	1.00	16.18	A	O
ATOM	573	N	ASN	A	192	176.930	166.564	11.029	1.00	13.38	A	N
ATOM	574	CA	ASN	A	192	178.306	166.216	10.740	1.00	13.06	A	C
ATOM	575	CB	ASN	A	192	178.367	165.242	9.568	1.00	16.94	A	C
ATOM	576	CG	ASN	A	192	177.621	163.963	9.853	1.00	21.40	A	C
ATOM	577	OD1	ASN	A	192	176.478	163.790	9.431	1.00	24.81	A	O
ATOM	578	ND2	ASN	A	192	178.255	163.062	10.596	1.00	19.25	A	N
ATOM	579	C	ASN	A	192	179.189	167.407	10.467	1.00	13.65	A	C
ATOM	580	O	ASN	A	192	180.258	167.276	9.869	1.00	15.58	A	O
ATOM	581	N	ILE	A	193	178.725	168.584	10.865	1.00	13.34	A	N
ATOM	582	CA	ILE	A	193	179.529	169.789	10.734	1.00	12.06	A	C
ATOM	583	CB	ILE	A	193	178.886	170.843	9.814	1.00	11.35	A	C
ATOM	584	CG2	ILE	A	193	179.688	172.131	9.882	1.00	5.81	A	C
ATOM	585	CG1	ILE	A	193	178.807	170.317	8.381	1.00	6.17	A	C
ATOM	586	CD1	ILE	A	193	178.045	171.205	7.453	1.00	8.69	A	C
ATOM	587	C	ILE	A	193	179.651	170.377	12.134	1.00	12.85	A	C
ATOM	588	O	ILE	A	193	178.663	170.540	12.840	1.00	14.90	A	O
ATOM	589	N	LEU	A	194	180.874	170.678	12.530	1.00	13.66	A	N
ATOM	590	CA	LEU	A	194	181.123	171.253	13.839	1.00	14.76	A	C
ATOM	591	CB	LEU	A	194	182.623	171.519	14.036	1.00	16.68	A	C
ATOM	592	CG	LEU	A	194	183.117	171.537	15.486	1.00	15.84	A	C
ATOM	593	CD1	LEU	A	194	183.039	170.099	16.000	1.00	14.02	A	C
ATOM	594	CD2	LEU	A	194	184.545	172.073	15.588	1.00	14.49	A	C
ATOM	595	C	LEU	A	194	180.381	172.578	13.964	1.00	16.81	A	C
ATOM	596	O	LEU	A	194	180.450	173.433	13.070	1.00	18.34	A	O
ATOM	597	N	ARG	A	195	179.683	172.727	15.085	1.00	15.08	A	N
ATOM	598	CA	ARG	A	195	178.924	173.924	15.390	1.00	16.45	A	C
ATOM	599	CB	ARG	A	195	177.878	173.634	16.474	1.00	19.44	A	C
ATOM	600	CG	ARG	A	195	176.596	172.975	15.987	1.00	25.93	A	C
ATOM	601	CD	ARG	A	195	175.746	173.967	15.232	1.00	29.82	A	C
ATOM	602	NE	ARG	A	195	174.811	174.694	16.091	1.00	36.41	A	N
ATOM	603	CZ	ARG	A	195	174.859	176.008	16.302	1.00	39.91	A	C
ATOM	604	NH1	ARG	A	195	175.804	176.729	15.718	1.00	44.61	A	N
ATOM	605	NH2	ARG	A	195	173.958	176.608	17.075	1.00	40.14	A	N
ATOM	606	C	ARG	A	195	179.787	175.113	15.870	1.00	16.17	A	C
ATOM	607	O	ARG	A	195	180.714	174.950	16.656	1.00	13.03	A	O
ATOM	608	N	LEU	A	196	179.471	176.293	15.341	1.00	17.85	A	N
ATOM	609	CA	LEU	A	196	180.114	177.536	15.749	1.00	16.50	A	C
ATOM	610	CB	LEU	A	196	180.623	178.380	14.572	1.00	13.17	A	C
ATOM	611	CG	LEU	A	196	181.348	179.669	14.959	1.00	15.31	A	C
ATOM	612	CD1	LEU	A	196	182.467	179.277	15.910	1.00	13.98	A	C
ATOM	613	CD2	LEU	A	196	181.922	180.404	13.749	1.00	12.29	A	C
ATOM	614	C	LEU	A	196	178.975	178.281	16.466	1.00	15.90	A	C
ATOM	615	O	LEU	A	196	178.037	178.767	15.839	1.00	15.06	A	O
ATOM	616	N	TYR	A	197	179.062	178.337	17.791	1.00	18.19	A	N
ATOM	617	CA	TYR	A	197	178.049	178.974	18.610	1.00	18.38	A	C
ATOM	618	CB	TYR	A	197	178.154	178.464	20.033	1.00	15.79	A	C
ATOM	619	CG	TYR	A	197	177.908	176.980	20.126	1.00	17.64	A	C
ATOM	620	CD1	TYR	A	197	178.955	176.080	20.280	1.00	15.26	A	C
ATOM	621	CE1	TYR	A	197	178.712	174.718	20.364	1.00	20.64	A	C
ATOM	622	CD2	TYR	A	197	176.607	176.469	20.054	1.00	21.32	A	C
ATOM	623	CE2	TYR	A	197	176.360	175.104	20.138	1.00	20.23	A	C

ATOM	624	CZ	TYR A 197	177.418	174.242	20.293	1.00	20.94	A	C
ATOM	625	OH	TYR A 197	177.185	172.900	20.387	1.00	26.42	A	O
ATOM	626	C	TYR A 197	178.174	180.481	18.561	1.00	19.88	A	C
ATOM	627	O	TYR A 197	177.180	181.193	18.454	1.00	19.95	A	O
ATOM	628	N	GLY A 198	179.394	180.985	18.611	1.00	20.35	A	N
ATOM	629	CA	GLY A 198	179.542	182.425	18.562	1.00	20.00	A	C
ATOM	630	C	GLY A 198	180.984	182.838	18.642	1.00	17.90	A	C
ATOM	631	O	GLY A 198	181.874	182.005	18.677	1.00	19.17	A	O
ATOM	632	N	TYR A 199	181.222	184.134	18.686	1.00	17.72	A	N
ATOM	633	CA	TYR A 199	182.589	184.593	18.748	1.00	19.93	A	C
ATOM	634	CB	TYR A 199	183.128	184.776	17.325	1.00	19.83	A	C
ATOM	635	CG	TYR A 199	182.894	186.166	16.788	1.00	21.41	A	C
ATOM	636	CD1	TYR A 199	183.892	187.135	16.885	1.00	21.65	A	C
ATOM	637	CE1	TYR A 199	183.677	188.430	16.486	1.00	22.65	A	C
ATOM	638	CD2	TYR A 199	181.660	186.538	16.266	1.00	18.59	A	C
ATOM	639	CE2	TYR A 199	181.426	187.841	15.862	1.00	22.04	A	C
ATOM	640	CZ	TYR A 199	182.439	188.787	15.972	1.00	23.54	A	C
ATOM	641	OH	TYR A 199	182.223	190.089	15.557	1.00	24.04	A	O
ATOM	642	C	TYR A 199	182.693	185.910	19.508	1.00	19.03	A	C
ATOM	643	O	TYR A 199	181.703	186.618	19.699	1.00	19.48	A	O
ATOM	644	N	PHE A 200	183.910	186.238	19.920	1.00	18.13	A	N
ATOM	645	CA	PHE A 200	184.177	187.478	20.627	1.00	17.58	A	C
ATOM	646	CB	PHE A 200	183.677	187.397	22.091	1.00	12.35	A	C
ATOM	647	CG	PHE A 200	184.369	186.344	22.955	1.00	13.81	A	C
ATOM	648	CD1	PHE A 200	185.449	186.685	23.779	1.00	14.44	A	C
ATOM	649	CD2	PHE A 200	183.898	185.033	22.998	1.00	12.16	A	C
ATOM	650	CE1	PHE A 200	186.043	185.731	24.636	1.00	13.44	A	C
ATOM	651	CE2	PHE A 200	184.474	184.075	23.845	1.00	13.42	A	C
ATOM	652	CZ	PHE A 200	185.552	184.426	24.669	1.00	13.28	A	C
ATOM	653	C	PHE A 200	185.675	187.756	20.549	1.00	18.86	A	C
ATOM	654	O	PHE A 200	186.482	186.840	20.451	1.00	24.13	A	O
ATOM	655	N	HIS A 201	186.056	189.019	20.573	1.00	19.06	A	N
ATOM	656	CA	HIS A 201	187.467	189.335	20.512	1.00	22.05	A	C
ATOM	657	CB	HIS A 201	187.820	189.966	19.159	1.00	20.51	A	C
ATOM	658	CG	HIS A 201	187.161	191.286	18.903	1.00	18.99	A	C
ATOM	659	CD2	HIS A 201	185.922	191.593	18.450	1.00	19.83	A	C
ATOM	660	ND1	HIS A 201	187.848	192.478	18.965	1.00	21.28	A	N
ATOM	661	CE1	HIS A 201	187.071	193.459	18.544	1.00	19.32	A	C
ATOM	662	NE2	HIS A 201	185.896	192.948	18.223	1.00	20.12	A	N
ATOM	663	C	HIS A 201	187.840	190.279	21.629	1.00	22.96	A	C
ATOM	664	O	HIS A 201	186.977	190.871	22.253	1.00	23.67	A	O
ATOM	665	N	ASP A 202	189.126	190.395	21.913	1.00	23.03	A	N
ATOM	666	CA	ASP A 202	189.535	191.331	22.936	1.00	24.25	A	C
ATOM	667	CB	ASP A 202	189.928	190.621	24.235	1.00	25.39	A	C
ATOM	668	CG	ASP A 202	191.175	189.780	24.097	1.00	28.38	A	C
ATOM	669	OD1	ASP A 202	191.836	189.826	23.031	1.00	34.60	A	O
ATOM	670	OD2	ASP A 202	191.495	189.066	25.067	1.00	24.71	A	O
ATOM	671	C	ASP A 202	190.696	192.148	22.398	1.00	25.07	A	C
ATOM	672	O	ASP A 202	190.896	192.235	21.193	1.00	24.05	A	O
ATOM	673	N	ALA A 203	191.480	192.733	23.287	1.00	26.38	A	N
ATOM	674	CA	ALA A 203	192.595	193.564	22.856	1.00	25.39	A	C
ATOM	675	CB	ALA A 203	193.217	194.257	24.082	1.00	23.30	A	C
ATOM	676	C	ALA A 203	193.678	192.847	22.039	1.00	25.31	A	C
ATOM	677	O	ALA A 203	194.184	193.405	21.070	1.00	24.76	A	O
ATOM	678	N	THR A 204	194.038	191.623	22.409	1.00	24.17	A	N
ATOM	679	CA	THR A 204	195.084	190.922	21.682	1.00	24.93	A	C
ATOM	680	CB	THR A 204	196.202	190.467	22.631	1.00	28.17	A	C
ATOM	681	OG1	THR A 204	195.667	189.534	23.582	1.00	29.58	A	O
ATOM	682	CG2	THR A 204	196.805	191.672	23.364	1.00	26.38	A	C
ATOM	683	C	THR A 204	194.638	189.711	20.869	1.00	26.55	A	C
ATOM	684	O	THR A 204	195.360	189.270	19.968	1.00	25.70	A	O
ATOM	685	N	ARG A 205	193.469	189.149	21.166	1.00	26.89	A	N
ATOM	686	CA	ARG A 205	193.039	188.002	20.382	1.00	26.09	A	C
ATOM	687	CB	ARG A 205	193.558	186.710	21.026	1.00	29.89	A	C
ATOM	688	CG	ARG A 205	193.403	186.595	22.508	1.00	35.65	A	C
ATOM	689	CD	ARG A 205	194.768	186.465	23.174	1.00	41.67	A	C
ATOM	690	NE	ARG A 205	194.650	186.517	24.630	1.00	50.08	A	N
ATOM	691	CZ	ARG A 205	195.657	186.756	25.467	1.00	53.61	A	C
ATOM	692	NH1	ARG A 205	196.884	186.972	24.997	1.00	54.63	A	N
ATOM	693	NH2	ARG A 205	195.429	186.782	26.781	1.00	57.41	A	N

ATOM	694	C	ARG	A	205	191.561	187.869	20.036	1.00	23.76	A	C
ATOM	695	O	ARG	A	205	190.728	188.654	20.478	1.00	26.35	A	O
ATOM	696	N	VAL	A	206	191.253	186.892	19.187	1.00	21.67	A	N
ATOM	697	CA	VAL	A	206	189.883	186.606	18.776	1.00	17.07	A	C
ATOM	698	CB	VAL	A	206	189.704	186.683	17.247	1.00	16.64	A	C
ATOM	699	CG1	VAL	A	206	188.235	186.422	16.888	1.00	11.75	A	C
ATOM	700	CG2	VAL	A	206	190.136	188.055	16.741	1.00	15.29	A	C
ATOM	701	C	VAL	A	206	189.541	185.179	19.225	1.00	16.35	A	C
ATOM	702	O	VAL	A	206	190.380	184.277	19.146	1.00	15.34	A	O
ATOM	703	N	TYR	A	207	188.308	184.987	19.688	1.00	15.70	A	N
ATOM	704	CA	TYR	A	207	187.866	183.692	20.185	1.00	14.78	A	C
ATOM	705	CB	TYR	A	207	187.555	183.754	21.686	1.00	14.30	A	C
ATOM	706	CG	TYR	A	207	188.599	184.415	22.538	1.00	15.34	A	C
ATOM	707	CD1	TYR	A	207	188.725	185.809	22.565	1.00	15.56	A	C
ATOM	708	CE1	TYR	A	207	189.669	186.433	23.389	1.00	14.72	A	C
ATOM	709	CD2	TYR	A	207	189.445	183.655	23.347	1.00	13.39	A	C
ATOM	710	CE2	TYR	A	207	190.393	184.263	24.174	1.00	15.70	A	C
ATOM	711	CZ	TYR	A	207	190.497	185.652	24.192	1.00	16.96	A	C
ATOM	712	OH	TYR	A	207	191.413	186.252	25.028	1.00	17.44	A	O
ATOM	713	C	TYR	A	207	186.624	183.132	19.506	1.00	14.64	A	C
ATOM	714	O	TYR	A	207	185.604	183.807	19.390	1.00	14.86	A	O
ATOM	715	N	LEU	A	208	186.716	181.882	19.082	1.00	12.98	A	N
ATOM	716	CA	LEU	A	208	185.597	181.206	18.475	1.00	11.35	A	C
ATOM	717	CB	LEU	A	208	186.025	180.515	17.181	1.00	12.38	A	C
ATOM	718	CG	LEU	A	208	186.790	181.296	16.101	1.00	18.53	A	C
ATOM	719	CD1	LEU	A	208	186.415	180.695	14.759	1.00	13.01	A	C
ATOM	720	CD2	LEU	A	208	186.466	182.794	16.118	1.00	17.18	A	C
ATOM	721	C	LEU	A	208	185.092	180.162	19.473	1.00	11.42	A	C
ATOM	722	O	LEU	A	208	185.875	179.354	19.978	1.00	9.69	A	O
ATOM	723	N	ILE	A	209	183.789	180.194	19.753	1.00	11.10	A	N
ATOM	724	CA	ILE	A	209	183.146	179.268	20.670	1.00	10.69	A	C
ATOM	725	CB	ILE	A	209	181.968	179.962	21.389	1.00	13.97	A	C
ATOM	726	CG2	ILE	A	209	181.316	178.980	22.422	1.00	10.28	A	C
ATOM	727	CG1	ILE	A	209	182.489	181.303	21.979	1.00	14.77	A	C
ATOM	728	CD1	ILE	A	209	181.466	182.209	22.621	1.00	10.27	A	C
ATOM	729	C	ILE	A	209	182.659	178.124	19.785	1.00	13.02	A	C
ATOM	730	O	ILE	A	209	181.689	178.238	19.040	1.00	13.94	A	O
ATOM	731	N	LEU	A	210	183.373	177.019	19.856	1.00	12.66	A	N
ATOM	732	CA	LEU	A	210	183.065	175.867	19.044	1.00	13.21	A	C
ATOM	733	CB	LEU	A	210	184.348	175.383	18.375	1.00	13.93	A	C
ATOM	734	CG	LEU	A	210	185.046	176.317	17.381	1.00	16.57	A	C
ATOM	735	CD1	LEU	A	210	186.507	175.915	17.264	1.00	14.44	A	C
ATOM	736	CD2	LEU	A	210	184.351	176.245	16.022	1.00	12.75	A	C
ATOM	737	C	LEU	A	210	182.464	174.731	19.841	1.00	10.33	A	C
ATOM	738	O	LEU	A	210	182.591	174.664	21.053	1.00	14.25	A	O
ATOM	739	N	GLU	A	211	181.784	173.843	19.139	1.00	11.52	A	N
ATOM	740	CA	GLU	A	211	181.218	172.646	19.739	1.00	12.06	A	C
ATOM	741	CB	GLU	A	211	180.272	171.970	18.751	1.00	15.25	A	C
ATOM	742	CG	GLU	A	211	180.147	170.462	18.927	1.00	16.63	A	C
ATOM	743	CD	GLU	A	211	179.379	169.783	17.784	1.00	23.31	A	C
ATOM	744	OE1	GLU	A	211	179.201	168.531	17.837	1.00	22.59	A	O
ATOM	745	OE2	GLU	A	211	178.954	170.500	16.829	1.00	22.15	A	O
ATOM	746	C	GLU	A	211	182.424	171.723	20.009	1.00	14.58	A	C
ATOM	747	O	GLU	A	211	183.296	171.561	19.156	1.00	11.41	A	O
ATOM	748	N	TYR	A	212	182.466	171.133	21.196	1.00	13.40	A	N
ATOM	749	CA	TYR	A	212	183.555	170.247	21.589	1.00	15.01	A	C
ATOM	750	CB	TYR	A	212	183.541	170.072	23.108	1.00	16.32	A	C
ATOM	751	CG	TYR	A	212	184.387	168.938	23.679	1.00	18.16	A	C
ATOM	752	CD1	TYR	A	212	185.744	168.820	23.391	1.00	15.83	A	C
ATOM	753	CE1	TYR	A	212	186.528	167.845	24.013	1.00	16.35	A	C
ATOM	754	CD2	TYR	A	212	183.829	168.042	24.601	1.00	18.49	A	C
ATOM	755	CE2	TYR	A	212	184.590	167.074	25.223	1.00	16.40	A	C
ATOM	756	CZ	TYR	A	212	185.934	166.973	24.934	1.00	19.22	A	C
ATOM	757	OH	TYR	A	212	186.655	165.995	25.594	1.00	15.81	A	O
ATOM	758	C	TYR	A	212	183.463	168.889	20.909	1.00	15.14	A	C
ATOM	759	O	TYR	A	212	182.414	168.259	20.920	1.00	14.66	A	O
ATOM	760	N	ALA	A	213	184.561	168.451	20.297	1.00	15.74	A	N
ATOM	761	CA	ALA	A	213	184.623	167.142	19.636	1.00	14.66	A	C
ATOM	762	CB	ALA	A	213	185.341	167.270	18.302	1.00	16.59	A	C
ATOM	763	C	ALA	A	213	185.417	166.270	20.615	1.00	16.61	A	C

ATOM	764	O	ALA	A	213	186.638	166.352	20.682	1.00	16.21	A	O
ATOM	765	N	PRO	A	214	184.724	165.418	21.380	1.00	15.97	A	N
ATOM	766	CD	PRO	A	214	183.323	165.077	21.082	1.00	15.58	A	C
ATOM	767	CA	PRO	A	214	185.258	164.515	22.398	1.00	15.31	A	C
ATOM	768	CB	PRO	A	214	184.000	163.837	22.963	1.00	14.60	A	C
ATOM	769	CG	PRO	A	214	182.844	164.624	22.417	1.00	17.26	A	C
ATOM	770	C	PRO	A	214	186.319	163.472	22.000	1.00	17.90	A	C
ATOM	771	O	PRO	A	214	187.172	163.152	22.829	1.00	18.00	A	O
ATOM	772	N	LEU	A	215	186.274	162.922	20.777	1.00	14.95	A	N
ATOM	773	CA	LEU	A	215	187.214	161.880	20.362	1.00	14.66	A	C
ATOM	774	CB	LEU	A	215	186.453	160.710	19.692	1.00	16.00	A	C
ATOM	775	CG	LEU	A	215	185.316	160.072	20.536	1.00	22.00	A	C
ATOM	776	CD1	LEU	A	215	184.664	158.818	19.898	1.00	17.85	A	C
ATOM	777	CD2	LEU	A	215	185.906	159.717	21.877	1.00	20.55	A	C
ATOM	778	C	LEU	A	215	188.415	162.306	19.505	1.00	14.59	A	C
ATOM	779	O	LEU	A	215	189.093	161.477	18.905	1.00	14.29	A	O
ATOM	780	N	GLY	A	216	188.691	163.603	19.455	1.00	16.74	A	N
ATOM	781	CA	GLY	A	216	189.836	164.070	18.694	1.00	14.83	A	C
ATOM	782	C	GLY	A	216	189.701	164.060	17.184	1.00	13.54	A	C
ATOM	783	O	GLY	A	216	188.597	164.008	16.656	1.00	12.48	A	O
ATOM	784	N	THR	A	217	190.843	164.091	16.497	1.00	12.97	A	N
ATOM	785	CA	THR	A	217	190.867	164.136	15.044	1.00	14.08	A	C
ATOM	786	CB	THR	A	217	192.005	164.998	14.503	1.00	14.49	A	C
ATOM	787	OG1	THR	A	217	193.242	164.310	14.733	1.00	16.68	A	O
ATOM	788	CG2	THR	A	217	192.043	166.347	15.167	1.00	10.84	A	C
ATOM	789	C	THR	A	217	191.060	162.811	14.347	1.00	16.46	A	C
ATOM	790	O	THR	A	217	191.741	161.910	14.849	1.00	15.02	A	O
ATOM	791	N	VAL	A	218	190.481	162.721	13.153	1.00	16.27	A	N
ATOM	792	CA	VAL	A	218	190.616	161.533	12.340	1.00	15.99	A	C
ATOM	793	CB	VAL	A	218	189.802	161.683	11.038	1.00	16.57	A	C
ATOM	794	CG1	VAL	A	218	190.263	160.649	9.999	1.00	18.56	A	C
ATOM	795	CG2	VAL	A	218	188.339	161.504	11.349	1.00	11.27	A	C
ATOM	796	C	VAL	A	218	192.117	161.366	12.051	1.00	16.41	A	C
ATOM	797	O	VAL	A	218	192.611	160.255	11.896	1.00	15.84	A	O
ATOM	798	N	TYR	A	219	192.826	162.487	12.008	1.00	15.85	A	N
ATOM	799	CA	TYR	A	219	194.261	162.509	11.789	1.00	16.76	A	C
ATOM	800	CB	TYR	A	219	194.771	163.937	11.908	1.00	18.52	A	C
ATOM	801	CG	TYR	A	219	196.259	164.024	11.800	1.00	19.33	A	C
ATOM	802	CD1	TYR	A	219	196.870	163.870	10.570	1.00	17.55	A	C
ATOM	803	CE1	TYR	A	219	198.249	163.929	10.450	1.00	23.59	A	C
ATOM	804	CD2	TYR	A	219	197.065	164.236	12.936	1.00	21.27	A	C
ATOM	805	CE2	TYR	A	219	198.454	164.289	12.834	1.00	20.92	A	C
ATOM	806	CZ	TYR	A	219	199.032	164.136	11.584	1.00	24.53	A	C
ATOM	807	OH	TYR	A	219	200.392	164.188	11.448	1.00	28.22	A	O
ATOM	808	C	TYR	A	219	194.999	161.661	12.826	1.00	18.49	A	C
ATOM	809	O	TYR	A	219	195.910	160.888	12.494	1.00	18.32	A	O
ATOM	810	N	ARG	A	220	194.617	161.836	14.086	1.00	16.66	A	N
ATOM	811	CA	ARG	A	220	195.247	161.100	15.154	1.00	19.76	A	C
ATOM	812	CB	ARG	A	220	194.848	161.674	16.514	1.00	22.26	A	C
ATOM	813	CG	ARG	A	220	195.514	160.949	17.669	1.00	27.26	A	C
ATOM	814	CD	ARG	A	220	197.039	161.124	17.660	1.00	29.11	A	C
ATOM	815	NE	ARG	A	220	197.689	160.200	18.595	1.00	32.84	A	N
ATOM	816	CZ	ARG	A	220	199.003	160.005	18.702	1.00	35.53	A	C
ATOM	817	NH1	ARG	A	220	199.867	160.669	17.931	1.00	39.53	A	N
ATOM	818	NH2	ARG	A	220	199.449	159.129	19.594	1.00	36.11	A	N
ATOM	819	C	ARG	A	220	194.908	159.608	15.088	1.00	19.85	A	C
ATOM	820	O	ARG	A	220	195.768	158.748	15.322	1.00	19.84	A	O
ATOM	821	N	GLU	A	221	193.661	159.309	14.746	1.00	19.44	A	N
ATOM	822	CA	GLU	A	221	193.192	157.935	14.628	1.00	21.14	A	C
ATOM	823	CB	GLU	A	221	191.670	157.930	14.386	1.00	22.94	A	C
ATOM	824	CG	GLU	A	221	190.968	156.594	14.519	1.00	27.24	A	C
ATOM	825	CD	GLU	A	221	191.078	155.998	15.918	1.00	30.92	A	C
ATOM	826	OE1	GLU	A	221	190.736	154.798	16.073	1.00	35.57	A	O
ATOM	827	OE2	GLU	A	221	191.502	156.716	16.857	1.00	31.40	A	O
ATOM	828	C	GLU	A	221	193.930	157.268	13.465	1.00	22.03	A	C
ATOM	829	O	GLU	A	221	194.201	156.061	13.493	1.00	21.79	A	O
ATOM	830	N	LEU	A	222	194.257	158.060	12.442	1.00	20.91	A	N
ATOM	831	CA	LEU	A	222	194.969	157.533	11.287	1.00	18.01	A	C
ATOM	832	CB	LEU	A	222	194.838	158.485	10.079	1.00	17.83	A	C
ATOM	833	CG	LEU	A	222	195.181	157.923	8.676	1.00	21.87	A	C

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ATOM    834  CD1 LEU A 222     194.366 156.652   8.358  1.00 17.44      A    C
ATOM    835  CD2 LEU A 222     194.892 159.007   7.634  1.00 19.79      A    C
ATOM    836  C   LEU A 222     196.439 157.261  11.639  1.00 16.91      A    C
ATOM    837  O   LEU A 222     197.012 156.317  11.119  1.00 16.89      A    O
ATOM    838  N   GLN A 223     197.062 158.066  12.503  1.00 16.66      A    N
ATOM    839  CA  GLN A 223     198.446 157.769  12.900  1.00 17.24      A    C
ATOM    840  CB  GLN A 223     199.022 158.808  13.850  1.00 19.18      A    C
ATOM    841  CG  GLN A 223     199.250 160.205  13.317  1.00 28.34      A    C
ATOM    842  CD  GLN A 223     199.954 161.058  14.355  1.00 31.88      A    C
ATOM    843  OE1 GLN A 223     199.437 161.241  15.474  1.00 31.86      A    O
ATOM    844  NE2 GLN A 223     201.149 161.584  14.005  1.00 34.43      A    N
ATOM    845  C   GLN A 223     198.456 156.448  13.688  1.00 21.01      A    C
ATOM    846  O   GLN A 223     199.360 155.630  13.523  1.00 18.77      A    O
ATOM    847  N   LYS A 224     197.464 156.277  14.570  1.00 21.30      A    N
ATOM    848  CA  LYS A 224     197.357 155.099  15.419  1.00 21.07      A    C
ATOM    849  CB  LYS A 224     196.258 155.300  16.492  1.00 24.80      A    C
ATOM    850  CG  LYS A 224     196.479 156.522  17.399  1.00 26.43      A    C
ATOM    851  CD  LYS A 224     195.427 156.642  18.505  1.00 30.49      A    C
ATOM    852  CE  LYS A 224     195.834 157.727  19.507  1.00 31.44      A    C
ATOM    853  NZ  LYS A 224     194.917 157.868  20.668  1.00 33.32      A    N
ATOM    854  C   LYS A 224     197.088 153.812  14.647  1.00 20.29      A    C
ATOM    855  O   LYS A 224     197.799 152.829  14.821  1.00 19.90      A    O
ATOM    856  N   LEU A 225     196.059 153.800  13.806  1.00 20.45      A    N
ATOM    857  CA  LEU A 225     195.753 152.603  13.039  1.00 18.46      A    C
ATOM    858  CB  LEU A 225     194.272 152.588  12.615  1.00 20.03      A    C
ATOM    859  CG  LEU A 225     193.224 152.691  13.740  1.00 24.89      A    C
ATOM    860  CD1 LEU A 225     191.784 152.656  13.213  1.00 20.57      A    C
ATOM    861  CD2 LEU A 225     193.462 151.543  14.674  1.00 26.58      A    C
ATOM    862  C   LEU A 225     196.631 152.464  11.780  1.00 19.83      A    C
ATOM    863  O   LEU A 225     196.694 151.381  11.186  1.00 20.09      A    O
ATOM    864  N   SER A 226     197.296 153.545  11.375  1.00 18.33      A    N
ATOM    865  CA  SER A 226     198.137 153.578  10.158  1.00 21.51      A    C
ATOM    866  CB  SER A 226     199.160 152.426  10.124  1.00 21.48      A    C
ATOM    867  OG  SER A 226     200.116 152.533  11.177  1.00 27.63      A    O
ATOM    868  C   SER A 226     197.295 153.542   8.871  1.00 20.48      A    C
ATOM    869  O   SER A 226     197.566 154.284   7.927  1.00 19.41      A    O
ATOM    870  N   LYS A 227     196.290 152.664   8.838  1.00 20.02      A    N
ATOM    871  CA  LYS A 227     195.358 152.524   7.697  1.00 19.86      A    C
ATOM    872  CB  LYS A 227     195.668 151.280   6.876  1.00 24.72      A    C
ATOM    873  CG  LYS A 227     196.854 151.364   5.990  1.00 29.64      A    C
ATOM    874  CD  LYS A 227     197.148 149.990   5.419  1.00 35.21      A    C
ATOM    875  CE  LYS A 227     198.330 150.088   4.465  1.00 41.32      A    C
ATOM    876  NZ  LYS A 227     198.843 148.758   4.016  1.00 43.82      A    N
ATOM    877  C   LYS A 227     193.970 152.303   8.274  1.00 16.62      A    C
ATOM    878  O   LYS A 227     193.852 151.881   9.411  1.00 18.80      A    O
ATOM    879  N   PHE A 228     192.930 152.584   7.499  1.00 14.54      A    N
ATOM    880  CA  PHE A 228     191.548 152.342   7.932  1.00 15.70      A    C
ATOM    881  CB  PHE A 228     190.665 153.590   7.729  1.00 12.09      A    C
ATOM    882  CG  PHE A 228     190.958 154.697   8.679  1.00 13.97      A    C
ATOM    883  CD1 PHE A 228     190.564 156.005   8.400  1.00 14.03      A    C
ATOM    884  CD2 PHE A 228     191.629 154.439   9.860  1.00 13.49      A    C
ATOM    885  CE1 PHE A 228     190.844 157.046   9.299  1.00 12.37      A    C
ATOM    886  CE2 PHE A 228     191.912 155.466  10.767  1.00 14.79      A    C
ATOM    887  CZ  PHE A 228     191.520 156.772  10.487  1.00 11.50      A    C
ATOM    888  C   PHE A 228     191.051 151.227   7.016  1.00 15.70      A    C
ATOM    889  O   PHE A 228     191.399 151.212   5.833  1.00 16.89      A    O
ATOM    890  N   ASP A 229     190.261 150.290   7.536  1.00 16.61      A    N
ATOM    891  CA  ASP A 229     189.753 149.221   6.666  1.00 18.23      A    C
ATOM    892  CB  ASP A 229     189.261 148.005   7.478  1.00 17.42      A    C
ATOM    893  CG  ASP A 229     188.092 148.325   8.369  1.00 20.41      A    C
ATOM    894  OD1 ASP A 229     187.161 149.024   7.930  1.00 28.20      A    O
ATOM    895  OD2 ASP A 229     188.072 147.859   9.511  1.00 26.24      A    O
ATOM    896  C   ASP A 229     188.624 149.817   5.810  1.00 16.57      A    C
ATOM    897  O   ASP A 229     188.322 151.006   5.939  1.00 17.37      A    O
ATOM    898  N   GLU A 230     187.998 149.020   4.952  1.00 15.33      A    N
ATOM    899  CA  GLU A 230     186.947 149.560   4.084  1.00 17.43      A    C
ATOM    900  CB  GLU A 230     186.571 148.541   3.002  1.00 16.24      A    C
ATOM    901  CG  GLU A 230     187.743 148.066   2.153  1.00 23.01      A    C
ATOM    902  CD  GLU A 230     187.313 147.497   0.794  1.00 27.22      A    C
ATOM    903  OE1 GLU A 230     186.584 146.478   0.753  1.00 28.49      A    O
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ATOM	904	OE2	GLU	A	230	187.711	148.085	-0.244	1.00	29.45	A	O
ATOM	905	C	GLU	A	230	185.680	150.062	4.783	1.00	16.70	A	C
ATOM	906	O	GLU	A	230	185.141	151.099	4.419	1.00	13.33	A	O
ATOM	907	N	GLN	A	231	185.209	149.326	5.782	1.00	16.53	A	N
ATOM	908	CA	GLN	A	231	184.003	149.711	6.512	1.00	17.02	A	C
ATOM	909	CB	GLN	A	231	183.728	148.656	7.596	1.00	15.32	A	C
ATOM	910	CG	GLN	A	231	182.370	148.737	8.289	1.00	17.56	A	C
ATOM	911	CD	GLN	A	231	182.297	149.841	9.359	1.00	22.59	A	C
ATOM	912	OE1	GLN	A	231	183.298	150.112	10.075	1.00	21.11	A	O
ATOM	913	NE2	GLN	A	231	181.106	150.478	9.494	1.00	19.70	A	N
ATOM	914	C	GLN	A	231	184.195	151.124	7.120	1.00	17.00	A	C
ATOM	915	O	GLN	A	231	183.381	152.024	6.890	1.00	18.40	A	O
ATOM	916	N	ARG	A	232	185.281	151.308	7.873	1.00	17.36	A	N
ATOM	917	CA	ARG	A	232	185.607	152.593	8.509	1.00	17.63	A	C
ATOM	918	CB	ARG	A	232	186.905	152.465	9.307	1.00	19.87	A	C
ATOM	919	CG	ARG	A	232	187.205	153.647	10.172	1.00	20.99	A	C
ATOM	920	CD	ARG	A	232	186.795	153.359	11.597	1.00	28.38	A	C
ATOM	921	NE	ARG	A	232	187.588	154.189	12.487	1.00	32.23	A	N
ATOM	922	CZ	ARG	A	232	188.247	153.745	13.545	1.00	31.41	A	C
ATOM	923	NH1	ARG	A	232	188.213	152.459	13.873	1.00	29.13	A	N
ATOM	924	NH2	ARG	A	232	188.963	154.604	14.257	1.00	35.98	A	N
ATOM	925	C	ARG	A	232	185.770	153.747	7.507	1.00	14.94	A	C
ATOM	926	O	ARG	A	232	185.356	154.866	7.761	1.00	12.98	A	O
ATOM	927	N	THR	A	233	186.403	153.457	6.384	1.00	13.16	A	N
ATOM	928	CA	THR	A	233	186.652	154.446	5.361	1.00	13.60	A	C
ATOM	929	CB	THR	A	233	187.719	153.902	4.340	1.00	14.55	A	C
ATOM	930	OG1	THR	A	233	188.937	153.623	5.048	1.00	14.87	A	O
ATOM	931	CG2	THR	A	233	188.016	154.908	3.231	1.00	13.20	A	C
ATOM	932	C	THR	A	233	185.339	154.863	4.686	1.00	13.47	A	C
ATOM	933	O	THR	A	233	185.090	156.056	4.508	1.00	12.81	A	O
ATOM	934	N	ALA	A	234	184.481	153.901	4.353	1.00	11.54	A	N
ATOM	935	CA	ALA	A	234	183.199	154.225	3.713	1.00	12.90	A	C
ATOM	936	CB	ALA	A	234	182.531	152.967	3.184	1.00	6.31	A	C
ATOM	937	C	ALA	A	234	182.254	154.953	4.675	1.00	15.13	A	C
ATOM	938	O	ALA	A	234	181.498	155.843	4.272	1.00	18.25	A	O
ATOM	939	N	THR	A	235	182.297	154.579	5.945	1.00	13.08	A	N
ATOM	940	CA	THR	A	235	181.450	155.221	6.909	1.00	11.34	A	C
ATOM	941	CB	THR	A	235	181.581	154.543	8.289	1.00	13.04	A	C
ATOM	942	OG1	THR	A	235	181.181	153.167	8.177	1.00	13.03	A	O
ATOM	943	CG2	THR	A	235	180.679	155.235	9.304	1.00	9.30	A	C
ATOM	944	C	THR	A	235	181.813	156.701	6.976	1.00	12.76	A	C
ATOM	945	O	THR	A	235	180.930	157.553	6.894	1.00	14.21	A	O
ATOM	946	N	TYR	A	236	183.104	157.003	7.115	1.00	12.83	A	N
ATOM	947	CA	TYR	A	236	183.586	158.392	7.157	1.00	14.72	A	C
ATOM	948	CB	TYR	A	236	185.096	158.451	7.371	1.00	16.17	A	C
ATOM	949	CG	TYR	A	236	185.572	158.175	8.772	1.00	16.12	A	C
ATOM	950	CD1	TYR	A	236	184.785	158.491	9.876	1.00	16.03	A	C
ATOM	951	CE1	TYR	A	236	185.237	158.261	11.162	1.00	16.90	A	C
ATOM	952	CD2	TYR	A	236	186.830	157.626	8.993	1.00	13.79	A	C
ATOM	953	CE2	TYR	A	236	187.290	157.397	10.266	1.00	15.98	A	C
ATOM	954	CZ	TYR	A	236	186.490	157.709	11.347	1.00	19.04	A	C
ATOM	955	OH	TYR	A	236	186.935	157.420	12.609	1.00	22.33	A	O
ATOM	956	C	TYR	A	236	183.291	159.154	5.862	1.00	16.50	A	C
ATOM	957	O	TYR	A	236	182.873	160.311	5.898	1.00	15.39	A	O
ATOM	958	N	ILE	A	237	183.536	158.517	4.718	1.00	14.99	A	N
ATOM	959	CA	ILE	A	237	183.274	159.176	3.456	1.00	15.34	A	C
ATOM	960	CB	ILE	A	237	183.656	158.295	2.242	1.00	15.72	A	C
ATOM	961	CG2	ILE	A	237	183.331	159.027	0.960	1.00	17.81	A	C
ATOM	962	CG1	ILE	A	237	185.157	157.993	2.241	1.00	13.11	A	C
ATOM	963	CD1	ILE	A	237	186.062	159.254	2.278	1.00	13.67	A	C
ATOM	964	C	ILE	A	237	181.795	159.542	3.379	1.00	17.56	A	C
ATOM	965	O	ILE	A	237	181.442	160.638	2.953	1.00	18.55	A	O
ATOM	966	N	THR	A	238	180.935	158.626	3.804	1.00	17.36	A	N
ATOM	967	CA	THR	A	238	179.489	158.853	3.816	1.00	14.99	A	C
ATOM	968	CB	THR	A	238	178.760	157.600	4.330	1.00	13.08	A	C
ATOM	969	OG1	THR	A	238	179.059	156.502	3.464	1.00	16.26	A	O
ATOM	970	CG2	THR	A	238	177.257	157.817	4.354	1.00	13.58	A	C
ATOM	971	C	THR	A	238	179.069	160.037	4.696	1.00	14.23	A	C
ATOM	972	O	THR	A	238	178.214	160.829	4.307	1.00	14.27	A	O
ATOM	973	N	GLU	A	239	179.649	160.149	5.888	1.00	11.63	A	N

ATOM	974	CA	GLU	A	239	179.285	161.242	6.781	1.00	13.23	A	C
ATOM	975	CB	GLU	A	239	179.913	161.025	8.170	1.00	14.00	A	C
ATOM	976	CG	GLU	A	239	179.443	159.721	8.804	1.00	18.38	A	C
ATOM	977	CD	GLU	A	239	180.121	159.365	10.124	1.00	24.00	A	C
ATOM	978	OE1	GLU	A	239	181.366	159.259	10.187	1.00	24.67	A	O
ATOM	979	OE2	GLU	A	239	179.385	159.158	11.114	1.00	32.52	A	O
ATOM	980	C	GLU	A	239	179.767	162.548	6.149	1.00	13.27	A	C
ATOM	981	O	GLU	A	239	179.028	163.525	6.073	1.00	12.45	A	O
ATOM	982	N	LEU	A	240	181.005	162.538	5.668	1.00	11.05	A	N
ATOM	983	CA	LEU	A	240	181.566	163.707	5.049	1.00	13.29	A	C
ATOM	984	CB	LEU	A	240	183.043	163.465	4.738	1.00	15.79	A	C
ATOM	985	CG	LEU	A	240	183.894	164.638	4.235	1.00	16.19	A	C
ATOM	986	CD1	LEU	A	240	184.031	165.720	5.279	1.00	19.17	A	C
ATOM	987	CD2	LEU	A	240	185.267	164.108	3.884	1.00	19.04	A	C
ATOM	988	C	LEU	A	240	180.798	164.081	3.773	1.00	13.39	A	C
ATOM	989	O	LEU	A	240	180.513	165.256	3.548	1.00	14.19	A	O
ATOM	990	N	ALA	A	241	180.443	163.091	2.955	1.00	11.67	A	N
ATOM	991	CA	ALA	A	241	179.726	163.372	1.711	1.00	12.50	A	C
ATOM	992	CB	ALA	A	241	179.577	162.108	0.873	1.00	9.22	A	C
ATOM	993	C	ALA	A	241	178.367	164.004	1.979	1.00	14.45	A	C
ATOM	994	O	ALA	A	241	177.923	164.878	1.222	1.00	14.36	A	O
ATOM	995	N	ASN	A	242	177.714	163.562	3.053	1.00	14.82	A	N
ATOM	996	CA	ASN	A	242	176.420	164.109	3.447	1.00	16.37	A	C
ATOM	997	CB	ASN	A	242	175.822	163.329	4.619	1.00	20.05	A	C
ATOM	998	CG	ASN	A	242	175.213	162.005	4.210	1.00	22.16	A	C
ATOM	999	OD1	ASN	A	242	175.027	161.133	5.055	1.00	23.63	A	O
ATOM	1000	ND2	ASN	A	242	174.883	161.850	2.922	1.00	24.84	A	N
ATOM	1001	C	ASN	A	242	176.623	165.540	3.918	1.00	16.87	A	C
ATOM	1002	O	ASN	A	242	175.804	166.429	3.636	1.00	13.50	A	O
ATOM	1003	N	ALA	A	243	177.713	165.747	4.656	1.00	13.07	A	N
ATOM	1004	CA	ALA	A	243	178.019	167.065	5.190	1.00	13.28	A	C
ATOM	1005	CB	ALA	A	243	179.204	166.982	6.137	1.00	13.95	A	C
ATOM	1006	C	ALA	A	243	178.292	168.063	4.072	1.00	14.76	A	C
ATOM	1007	O	ALA	A	243	177.751	169.173	4.080	1.00	11.54	A	O
ATOM	1008	N	LEU	A	244	179.126	167.651	3.113	1.00	15.34	A	N
ATOM	1009	CA	LEU	A	244	179.487	168.477	1.955	1.00	14.00	A	C
ATOM	1010	CB	LEU	A	244	180.572	167.766	1.134	1.00	12.82	A	C
ATOM	1011	CG	LEU	A	244	181.958	167.607	1.791	1.00	13.66	A	C
ATOM	1012	CD1	LEU	A	244	182.862	166.784	0.883	1.00	10.60	A	C
ATOM	1013	CD2	LEU	A	244	182.570	168.990	2.068	1.00	10.59	A	C
ATOM	1014	C	LEU	A	244	178.245	168.764	1.078	1.00	13.84	A	C
ATOM	1015	O	LEU	A	244	178.079	169.862	0.545	1.00	9.94	A	O
ATOM	1016	N	SER	A	245	177.363	167.776	0.949	1.00	11.65	A	N
ATOM	1017	CA	SER	A	245	176.162	167.951	0.149	1.00	12.45	A	C
ATOM	1018	CB	SER	A	245	175.403	166.623	0.101	1.00	11.63	A	C
ATOM	1019	OG	SER	A	245	174.265	166.724	-0.729	1.00	18.58	A	O
ATOM	1020	C	SER	A	245	175.284	169.090	0.716	1.00	12.58	A	C
ATOM	1021	O	SER	A	245	174.753	169.925	-0.028	1.00	13.38	A	O
ATOM	1022	N	TYR	A	246	175.156	169.126	2.038	1.00	10.82	A	N
ATOM	1023	CA	TYR	A	246	174.388	170.146	2.719	1.00	12.87	A	C
ATOM	1024	CB	TYR	A	246	174.337	169.838	4.232	1.00	10.92	A	C
ATOM	1025	CG	TYR	A	246	173.941	171.010	5.076	1.00	13.12	A	C
ATOM	1026	CD1	TYR	A	246	172.615	171.398	5.169	1.00	11.79	A	C
ATOM	1027	CE1	TYR	A	246	172.249	172.526	5.886	1.00	15.75	A	C
ATOM	1028	CD2	TYR	A	246	174.905	171.782	5.727	1.00	14.34	A	C
ATOM	1029	CE2	TYR	A	246	174.548	172.925	6.452	1.00	17.65	A	C
ATOM	1030	CZ	TYR	A	246	173.209	173.288	6.526	1.00	18.09	A	C
ATOM	1031	OH	TYR	A	246	172.806	174.411	7.231	1.00	20.69	A	O
ATOM	1032	C	TYR	A	246	175.068	171.506	2.474	1.00	14.69	A	C
ATOM	1033	O	TYR	A	246	174.399	172.522	2.263	1.00	16.54	A	O
ATOM	1034	N	CYS	A	247	176.398	171.506	2.526	1.00	12.79	A	N
ATOM	1035	CA	CYS	A	247	177.217	172.695	2.312	1.00	15.14	A	C
ATOM	1036	CB	CYS	A	247	178.697	172.339	2.453	1.00	18.30	A	C
ATOM	1037	SG	CYS	A	247	179.389	172.397	4.097	1.00	20.02	A	S
ATOM	1038	C	CYS	A	247	177.033	173.298	0.930	1.00	14.64	A	C
ATOM	1039	O	CYS	A	247	176.944	174.517	0.765	1.00	13.32	A	O
ATOM	1040	N	HIS	A	248	177.018	172.424	-0.063	1.00	12.96	A	N
ATOM	1041	CA	HIS	A	248	176.867	172.853	-1.435	1.00	14.92	A	C
ATOM	1042	CB	HIS	A	248	177.246	171.711	-2.361	1.00	14.58	A	C
ATOM	1043	CG	HIS	A	248	178.698	171.388	-2.305	1.00	15.75	A	C

ATOM	1044	CD2	HIS	A	248	179.651	171.777	-1.427	1.00	14.69	A	C
ATOM	1045	ND1	HIS	A	248	179.331	170.596	-3.236	1.00	18.18	A	N
ATOM	1046	CE1	HIS	A	248	180.614	170.512	-2.934	1.00	15.22	A	C
ATOM	1047	NE2	HIS	A	248	180.832	171.220	-1.840	1.00	14.77	A	N
ATOM	1048	C	HIS	A	248	175.474	173.338	-1.717	1.00	16.00	A	C
ATOM	1049	O	HIS	A	248	175.285	174.228	-2.538	1.00	16.44	A	O
ATOM	1050	N	SER	A	249	174.503	172.744	-1.028	1.00	14.49	A	N
ATOM	1051	CA	SER	A	249	173.125	173.148	-1.197	1.00	15.32	A	C
ATOM	1052	CB	SER	A	249	172.201	172.233	-0.392	1.00	11.40	A	C
ATOM	1053	OG	SER	A	249	172.281	172.527	0.985	1.00	16.48	A	O
ATOM	1054	C	SER	A	249	173.055	174.597	-0.696	1.00	16.09	A	C
ATOM	1055	O	SER	A	249	172.139	175.350	-1.034	1.00	18.04	A	O
ATOM	1056	N	LYS	A	250	174.031	174.988	0.118	1.00	15.99	A	N
ATOM	1057	CA	LYS	A	250	174.072	176.363	0.599	1.00	15.13	A	C
ATOM	1058	CB	LYS	A	250	174.405	176.441	2.107	1.00	13.57	A	C
ATOM	1059	CG	LYS	A	250	173.350	175.850	3.040	1.00	15.19	A	C
ATOM	1060	CD	LYS	A	250	171.930	176.203	2.629	1.00	19.05	A	C
ATOM	1061	CE	LYS	A	250	170.943	175.150	3.131	1.00	24.43	A	C
ATOM	1062	NZ	LYS	A	250	169.492	175.372	2.776	1.00	28.76	A	N
ATOM	1063	C	LYS	A	250	175.106	177.133	-0.210	1.00	11.97	A	C
ATOM	1064	O	LYS	A	250	175.375	178.286	0.057	1.00	14.99	A	O
ATOM	1065	N	ARG	A	251	175.686	176.478	-1.208	1.00	14.14	A	N
ATOM	1066	CA	ARG	A	251	176.690	177.099	-2.079	1.00	13.45	A	C
ATOM	1067	CB	ARG	A	251	176.080	178.305	-2.792	1.00	14.05	A	C
ATOM	1068	CG	ARG	A	251	174.976	177.936	-3.779	1.00	21.06	A	C
ATOM	1069	CD	ARG	A	251	175.441	178.112	-5.227	1.00	27.95	A	C
ATOM	1070	NE	ARG	A	251	175.547	176.844	-5.943	1.00	31.22	A	N
ATOM	1071	CZ	ARG	A	251	176.391	176.615	-6.949	1.00	31.35	A	C
ATOM	1072	NH1	ARG	A	251	177.214	177.570	-7.368	1.00	28.63	A	N
ATOM	1073	NH2	ARG	A	251	176.427	175.422	-7.526	1.00	31.96	A	N
ATOM	1074	C	ARG	A	251	177.974	177.493	-1.362	1.00	12.30	A	C
ATOM	1075	O	ARG	A	251	178.618	178.472	-1.703	1.00	12.69	A	O
ATOM	1076	N	VAL	A	252	178.344	176.714	-0.363	1.00	11.12	A	N
ATOM	1077	CA	VAL	A	252	179.569	176.971	0.368	1.00	12.45	A	C
ATOM	1078	CB	VAL	A	252	179.338	176.810	1.885	1.00	12.23	A	C
ATOM	1079	CG1	VAL	A	252	180.651	176.509	2.587	1.00	9.08	A	C
ATOM	1080	CG2	VAL	A	252	178.681	178.059	2.446	1.00	10.54	A	C
ATOM	1081	C	VAL	A	252	180.604	175.940	-0.083	1.00	15.27	A	C
ATOM	1082	O	VAL	A	252	180.267	174.774	-0.265	1.00	12.78	A	O
ATOM	1083	N	ILE	A	253	181.840	176.373	-0.326	1.00	13.72	A	N
ATOM	1084	CA	ILE	A	253	182.872	175.419	-0.680	1.00	10.89	A	C
ATOM	1085	CB	ILE	A	253	183.670	175.788	-1.957	1.00	11.67	A	C
ATOM	1086	CG2	ILE	A	253	184.426	174.535	-2.441	1.00	5.83	A	C
ATOM	1087	CG1	ILE	A	253	182.733	176.323	-3.059	1.00	10.28	A	C
ATOM	1088	CD1	ILE	A	253	183.439	176.812	-4.329	1.00	3.57	A	C
ATOM	1089	C	ILE	A	253	183.831	175.453	0.498	1.00	13.01	A	C
ATOM	1090	O	ILE	A	253	184.347	176.524	0.849	1.00	13.11	A	O
ATOM	1091	N	HIS	A	254	184.050	174.288	1.113	1.00	13.19	A	N
ATOM	1092	CA	HIS	A	254	184.943	174.161	2.259	1.00	12.95	A	C
ATOM	1093	CB	HIS	A	254	184.868	172.745	2.843	1.00	12.70	A	C
ATOM	1094	CG	HIS	A	254	185.587	172.606	4.160	1.00	12.92	A	C
ATOM	1095	CD2	HIS	A	254	185.206	172.914	5.423	1.00	9.91	A	C
ATOM	1096	ND1	HIS	A	254	186.898	172.180	4.257	1.00	13.73	A	N
ATOM	1097	CE1	HIS	A	254	187.290	172.229	5.515	1.00	10.14	A	C
ATOM	1098	NE2	HIS	A	254	186.282	172.671	6.243	1.00	11.29	A	N
ATOM	1099	C	HIS	A	254	186.383	174.507	1.889	1.00	13.04	A	C
ATOM	1100	O	HIS	A	254	186.971	175.438	2.447	1.00	14.41	A	O
ATOM	1101	N	ARG	A	255	186.935	173.743	0.953	1.00	12.07	A	N
ATOM	1102	CA	ARG	A	255	188.291	173.910	0.438	1.00	12.35	A	C
ATOM	1103	CB	ARG	A	255	188.494	175.341	-0.050	1.00	13.05	A	C
ATOM	1104	CG	ARG	A	255	187.553	175.664	-1.200	1.00	15.96	A	C
ATOM	1105	CD	ARG	A	255	187.942	176.885	-1.997	1.00	11.42	A	C
ATOM	1106	NE	ARG	A	255	188.045	178.075	-1.183	1.00	13.42	A	N
ATOM	1107	CZ	ARG	A	255	188.194	179.295	-1.690	1.00	17.97	A	C
ATOM	1108	NH1	ARG	A	255	188.248	179.453	-3.012	1.00	12.59	A	N
ATOM	1109	NH2	ARG	A	255	188.308	180.348	-0.880	1.00	11.08	A	N
ATOM	1110	C	ARG	A	255	189.479	173.491	1.328	1.00	14.82	A	C
ATOM	1111	O	ARG	A	255	190.628	173.656	0.914	1.00	16.45	A	O
ATOM	1112	N	ASP	A	256	189.237	172.959	2.528	1.00	13.90	A	N
ATOM	1113	CA	ASP	A	256	190.355	172.522	3.364	1.00	14.13	A	C

ATOM	1114	CB	ASP A 256	190.779	173.631	4.341	1.00	15.61	A	C
ATOM	1115	CG	ASP A 256	192.185	173.408	4.930	1.00	17.71	A	C
ATOM	1116	OD1	ASP A 256	193.119	172.950	4.217	1.00	18.23	A	O
ATOM	1117	OD2	ASP A 256	192.364	173.712	6.130	1.00	20.01	A	O
ATOM	1118	C	ASP A 256	190.021	171.231	4.094	1.00	14.83	A	C
ATOM	1119	O	ASP A 256	190.209	171.088	5.300	1.00	17.90	A	O
ATOM	1120	N	ILE A 257	189.522	170.285	3.321	1.00	14.83	A	N
ATOM	1121	CA	ILE A 257	189.170	168.978	3.809	1.00	15.89	A	C
ATOM	1122	CB	ILE A 257	188.209	168.318	2.821	1.00	16.68	A	C
ATOM	1123	CG2	ILE A 257	188.096	166.834	3.106	1.00	18.21	A	C
ATOM	1124	CG1	ILE A 257	186.851	169.010	2.909	1.00	19.11	A	C
ATOM	1125	CD1	ILE A 257	185.939	168.636	1.771	1.00	26.98	A	C
ATOM	1126	C	ILE A 257	190.461	168.170	3.888	1.00	16.84	A	C
ATOM	1127	O	ILE A 257	191.180	168.019	2.890	1.00	19.23	A	O
ATOM	1128	N	LYS A 258	190.759	167.673	5.079	1.00	14.42	A	N
ATOM	1129	CA	LYS A 258	191.948	166.861	5.321	1.00	13.61	A	C
ATOM	1130	CB	LYS A 258	193.218	167.696	5.165	1.00	11.12	A	C
ATOM	1131	CG	LYS A 258	193.288	168.912	6.021	1.00	10.35	A	C
ATOM	1132	CD	LYS A 258	194.685	169.397	5.941	1.00	11.98	A	C
ATOM	1133	CE	LYS A 258	194.946	170.539	6.844	1.00	10.31	A	C
ATOM	1134	NZ	LYS A 258	196.316	171.028	6.523	1.00	13.12	A	N
ATOM	1135	C	LYS A 258	191.828	166.275	6.728	1.00	12.82	A	C
ATOM	1136	O	LYS A 258	191.093	166.807	7.565	1.00	12.94	A	O
ATOM	1137	N	PRO A 259	192.547	165.180	7.011	1.00	13.48	A	N
ATOM	1138	CD	PRO A 259	193.607	164.582	6.181	1.00	11.93	A	C
ATOM	1139	CA	PRO A 259	192.487	164.525	8.329	1.00	14.07	A	C
ATOM	1140	CB	PRO A 259	193.641	163.517	8.267	1.00	14.89	A	C
ATOM	1141	CG	PRO A 259	193.714	163.197	6.778	1.00	14.98	A	C
ATOM	1142	C	PRO A 259	192.527	165.413	9.583	1.00	15.36	A	C
ATOM	1143	O	PRO A 259	191.773	165.171	10.520	1.00	15.88	A	O
ATOM	1144	N	GLU A 260	193.388	166.428	9.593	1.00	15.22	A	N
ATOM	1145	CA	GLU A 260	193.516	167.340	10.734	1.00	19.96	A	C
ATOM	1146	CB	GLU A 260	194.770	168.225	10.563	1.00	22.41	A	C
ATOM	1147	CG	GLU A 260	196.090	167.457	10.516	1.00	29.11	A	C
ATOM	1148	CD	GLU A 260	196.610	167.140	9.092	1.00	32.88	A	C
ATOM	1149	OE1	GLU A 260	195.826	166.656	8.235	1.00	33.12	A	O
ATOM	1150	OE2	GLU A 260	197.823	167.360	8.841	1.00	35.49	A	O
ATOM	1151	C	GLU A 260	192.280	168.252	10.924	1.00	18.80	A	C
ATOM	1152	O	GLU A 260	192.140	168.905	11.957	1.00	18.71	A	O
ATOM	1153	N	ASN A 261	191.401	168.309	9.922	1.00	16.14	A	N
ATOM	1154	CA	ASN A 261	190.206	169.139	10.014	1.00	14.12	A	C
ATOM	1155	CB	ASN A 261	190.084	170.036	8.799	1.00	12.74	A	C
ATOM	1156	CG	ASN A 261	191.068	171.176	8.824	1.00	12.37	A	C
ATOM	1157	OD1	ASN A 261	191.719	171.446	9.840	1.00	11.65	A	O
ATOM	1158	ND2	ASN A 261	191.178	171.868	7.705	1.00	11.18	A	N
ATOM	1159	C	ASN A 261	188.944	168.329	10.159	1.00	14.87	A	C
ATOM	1160	O	ASN A 261	187.844	168.855	10.027	1.00	14.12	A	O
ATOM	1161	N	LEU A 262	189.117	167.037	10.428	1.00	16.20	A	N
ATOM	1162	CA	LEU A 262	187.996	166.127	10.596	1.00	13.58	A	C
ATOM	1163	CB	LEU A 262	188.128	164.954	9.627	1.00	13.22	A	C
ATOM	1164	CG	LEU A 262	188.164	165.406	8.162	1.00	15.01	A	C
ATOM	1165	CD1	LEU A 262	188.502	164.230	7.232	1.00	8.10	A	C
ATOM	1166	CD2	LEU A 262	186.807	166.049	7.834	1.00	10.56	A	C
ATOM	1167	C	LEU A 262	188.027	165.633	12.031	1.00	15.43	A	C
ATOM	1168	O	LEU A 262	188.999	165.008	12.459	1.00	17.59	A	O
ATOM	1169	N	LEU A 263	186.968	165.915	12.777	1.00	11.89	A	N
ATOM	1170	CA	LEU A 263	186.926	165.505	14.154	1.00	10.46	A	C
ATOM	1171	CB	LEU A 263	186.657	166.725	15.005	1.00	13.46	A	C
ATOM	1172	CG	LEU A 263	187.584	167.921	14.699	1.00	14.28	A	C
ATOM	1173	CD1	LEU A 263	187.208	169.055	15.634	1.00	15.02	A	C
ATOM	1174	CD2	LEU A 263	189.050	167.563	14.865	1.00	12.28	A	C
ATOM	1175	C	LEU A 263	185.905	164.407	14.409	1.00	12.75	A	C
ATOM	1176	O	LEU A 263	185.068	164.112	13.553	1.00	13.83	A	O
ATOM	1177	N	LEU A 264	185.989	163.780	15.576	1.00	13.44	A	N
ATOM	1178	CA	LEU A 264	185.076	162.693	15.919	1.00	15.08	A	C
ATOM	1179	CB	LEU A 264	185.856	161.421	16.298	1.00	15.27	A	C
ATOM	1180	CG	LEU A 264	186.808	160.821	15.263	1.00	16.94	A	C
ATOM	1181	CD1	LEU A 264	187.393	159.499	15.783	1.00	20.04	A	C
ATOM	1182	CD2	LEU A 264	186.043	160.590	13.944	1.00	16.69	A	C
ATOM	1183	C	LEU A 264	184.190	163.103	17.078	1.00	14.83	A	C

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ATOM   1184  O   LEU A 264      184.669 163.613  18.096  1.00 13.07      A  O
ATOM   1185  N   GLY A 265      182.890 162.881  16.907  1.00 14.85      A  N
ATOM   1186  CA  GLY A 265      181.943 163.218  17.947  1.00 15.69      A  C
ATOM   1187  C   GLY A 265      181.844 162.127  18.999  1.00 17.48      A  C
ATOM   1188  O   GLY A 265      182.597 161.144  18.989  1.00 19.40      A  O
ATOM   1189  N   SER A 266      180.888 162.306  19.899  1.00 17.64      A  N
ATOM   1190  CA  SER A 266      180.641 161.398  21.007  1.00 18.83      A  C
ATOM   1191  CB  SER A 266      179.417 161.895  21.766  1.00 17.49      A  C
ATOM   1192  OG  SER A 266      179.347 161.294  23.037  1.00 31.06      A  O
ATOM   1193  C   SER A 266      180.457 159.923  20.615  1.00 16.59      A  C
ATOM   1194  O   SER A 266      180.771 159.025  21.389  1.00 16.64      A  O
ATOM   1195  N   ALA A 267      179.960 159.675  19.412  1.00 15.97      A  N
ATOM   1196  CA  ALA A 267      179.731 158.314  18.939  1.00 17.67      A  C
ATOM   1197  CB  ALA A 267      178.288 158.163  18.456  1.00 14.65      A  C
ATOM   1198  C   ALA A 267      180.670 157.930  17.815  1.00 18.92      A  C
ATOM   1199  O   ALA A 267      180.353 157.040  17.025  1.00 21.00      A  O
ATOM   1200  N   GLY A 268      181.812 158.604  17.716  1.00 21.24      A  N
ATOM   1201  CA  GLY A 268      182.741 158.278  16.648  1.00 22.38      A  C
ATOM   1202  C   GLY A 268      182.289 158.773  15.282  1.00 21.15      A  C
ATOM   1203  O   GLY A 268      182.809 158.323  14.266  1.00 20.78      A  O
ATOM   1204  N   GLU A 269      181.324 159.690  15.249  1.00 19.71      A  N
ATOM   1205  CA  GLU A 269      180.831 160.239  13.983  1.00 18.83      A  C
ATOM   1206  CB  GLU A 269      179.386 160.746  14.107  1.00 20.11      A  C
ATOM   1207  CG  GLU A 269      179.239 162.020  14.944  1.00 27.28      A  C
ATOM   1208  CD  GLU A 269      178.874 161.722  16.385  1.00 29.04      A  C
ATOM   1209  OE1 GLU A 269      179.762 161.324  17.177  1.00 30.97      A  O
ATOM   1210  OE2 GLU A 269      177.677 161.868  16.711  1.00 33.63      A  O
ATOM   1211  C   GLU A 269      181.702 161.409  13.549  1.00 17.27      A  C
ATOM   1212  O   GLU A 269      182.088 162.249  14.368  1.00 15.38      A  O
ATOM   1213  N   LEU A 270      181.994 161.461  12.253  1.00 14.97      A  N
ATOM   1214  CA  LEU A 270      182.822 162.515  11.689  1.00 15.39      A  C
ATOM   1215  CB  LEU A 270      183.169 162.167  10.229  1.00 21.78      A  C
ATOM   1216  CG  LEU A 270      184.100 163.071   9.408  1.00 22.18      A  C
ATOM   1217  CD1 LEU A 270      185.484 162.839   9.938  1.00 26.73      A  C
ATOM   1218  CD2 LEU A 270      184.109 162.725   7.944  1.00 27.39      A  C
ATOM   1219  C   LEU A 270      182.129 163.876  11.722  1.00 13.13      A  C
ATOM   1220  O   LEU A 270      180.932 163.973  11.490  1.00 12.45      A  O
ATOM   1221  N   LYS A 271      182.895 164.918  12.027  1.00 13.69      A  N
ATOM   1222  CA  LYS A 271      182.395 166.296  12.025  1.00 13.80      A  C
ATOM   1223  CB  LYS A 271      182.201 166.814  13.450  1.00 13.22      A  C
ATOM   1224  CG  LYS A 271      180.846 166.378  14.025  1.00 16.86      A  C
ATOM   1225  CD  LYS A 271      180.790 166.428  15.509  1.00 17.04      A  C
ATOM   1226  CE  LYS A 271      179.494 165.823  15.967  1.00 15.79      A  C
ATOM   1227  NZ  LYS A 271      178.379 166.692  15.545  1.00 20.81      A  N
ATOM   1228  C   LYS A 271      183.392 167.151  11.270  1.00 15.22      A  C
ATOM   1229  O   LYS A 271      184.586 167.152  11.582  1.00 16.95      A  O
ATOM   1230  N   ILE A 272      182.919 167.842  10.238  1.00 15.55      A  N
ATOM   1231  CA  ILE A 272      183.803 168.702   9.462  1.00 15.61      A  C
ATOM   1232  CB  ILE A 272      183.143 169.220   8.163  1.00 19.61      A  C
ATOM   1233  CG2 ILE A 272      184.054 170.269   7.530  1.00 18.20      A  C
ATOM   1234  CG1 ILE A 272      182.850 168.069   7.203  1.00 22.81      A  C
ATOM   1235  CD1 ILE A 272      182.068 168.504   5.967  1.00 25.62      A  C
ATOM   1236  C   ILE A 272      184.051 169.926  10.303  1.00 13.27      A  C
ATOM   1237  O   ILE A 272      183.136 170.422  10.945  1.00 12.04      A  O
ATOM   1238  N   ALA A 273      185.270 170.428  10.294  1.00 11.17      A  N
ATOM   1239  CA  ALA A 273      185.568 171.623  11.069  1.00 13.73      A  C
ATOM   1240  CB  ALA A 273      186.266 171.248  12.376  1.00 10.14      A  C
ATOM   1241  C   ALA A 273      186.472 172.498  10.225  1.00 16.38      A  C
ATOM   1242  O   ALA A 273      186.688 172.208   9.047  1.00 16.96      A  O
ATOM   1243  N   ASP A 274      186.986 173.568  10.834  1.00 17.04      A  N
ATOM   1244  CA  ASP A 274      187.913 174.500  10.200  1.00 15.18      A  C
ATOM   1245  CB  ASP A 274      189.288 173.805  10.074  1.00 17.02      A  C
ATOM   1246  CG  ASP A 274      190.447 174.786   9.800  1.00 19.27      A  C
ATOM   1247  OD1 ASP A 274      190.190 175.999   9.635  1.00 22.45      A  O
ATOM   1248  OD2 ASP A 274      191.624 174.338   9.753  1.00 17.87      A  O
ATOM   1249  C   ASP A 274      187.434 175.064   8.838  1.00 16.14      A  C
ATOM   1250  O   ASP A 274      187.846 174.604   7.776  1.00 12.68      A  O
ATOM   1251  N   PHE A 275      186.559 176.065   8.881  1.00 15.86      A  N
ATOM   1252  CA  PHE A 275      186.074 176.688   7.666  1.00 14.12      A  C
ATOM   1253  CB  PHE A 275      184.602 177.108   7.835  1.00 13.16      A  C
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ATOM   1254  CG   PHE A 275    183.640 175.948    7.721  1.00 12.72     A    C
ATOM   1255  CD1  PHE A 275    183.540 174.994    8.746  1.00 11.42     A    C
ATOM   1256  CD2  PHE A 275    182.936 175.727    6.535  1.00 11.44     A    C
ATOM   1257  CE1  PHE A 275    182.768 173.843    8.581  1.00 10.04     A    C
ATOM   1258  CE2  PHE A 275    182.157 174.568    6.367  1.00 12.57.    A    C
ATOM   1259  CZ   PHE A 275    182.079 173.631    7.396  1.00 11.15     A    C
ATOM   1260  C    PHE A 275    186.966 177.868    7.289  1.00 15.87     A :  C
ATOM   1261  O    PHE A 275    186.541 178.780    6.568  1.00 15.07     A    O
ATOM   1262  N    GLY A 276    188.221 177.820    7.751  1.00 15.09     A    N
ATOM   1263  CA   GLY A 276    189.184 178.875    7.452  1.00 17.20     A    C
ATOM   1264  C    GLY A 276    189.322 179.285    5.983  1.00 16.44     A    C
ATOM   1265  O    GLY A 276    189.368 180.482    5.665  1.00 17.13     A    O
ATOM   1266  N    TRP A 277    189.378 178.307    5.082  1.00 13.73     A    N
ATOM   1267  CA   TRP A 277    189.514 178.596    3.664  1.00 14.40     A    C
ATOM   1268  CB   TRP A 277    190.568 177.667    3.071  1.00 20.13     A    C
ATOM   1269  CG   TRP A 277    191.860 177.753    3.789  1.00 22.40     A    C
ATOM   1270  CD2  TRP A 277    192.691 178.904    3.893  1.00 23.73     A    C
ATOM   1271  CE2  TRP A 277    193.788 178.558    4.701  1.00 26.05     A    C
ATOM   1272  CE3  TRP A 277    192.617 180.198    3.375  1.00 25.94     A    C
ATOM   1273  CD1  TRP A 277    192.463 176.777    4.517  1.00 23.25     A    C
ATOM   1274  NE1  TRP A 277    193.625 177.250    5.074  1.00 24.53     A    N
ATOM   1275  CZ2  TRP A 277    194.806 179.467    5.015  1.00 27.86     A    C
ATOM   1276  CZ3  TRP A 277    193.631 181.106    3.686  1.00 28.74     A    C
ATOM   1277  CH2  TRP A 277    194.711 180.733    4.496  1.00 26.68     A    C
ATOM   1278  C    TRP A 277    188.202 178.467    2.888  1.00 13.46     A    C
ATOM   1279  O    TRP A 277    188.190 178.362    1.664  1.00 14.44     A    O
ATOM   1280  N    SER A 278    187.097 178.481    3.605  1.00 14.67     A    N
ATOM   1281  CA   SER A 278    185.809 178.360    2.973  1.00 16.81     A    C
ATOM   1282  CB   SER A 278    184.785 177.937    4.009  1.00 18.65     A    C
ATOM   1283  OG   SER A 278    185.042 176.588    4.334  1.00 31.56     A    O
ATOM   1284  C    SER A 278    185.338 179.620    2.269  1.00 15.59     A    C
ATOM   1285  O    SER A 278    185.887 180.700    2.456  1.00 13.40     A    O
ATOM   1286  N    VAL A 279    184.330 179.468    1.427  1.00 12.47     A    N
ATOM   1287  CA   VAL A 279    183.790 180.622    0.750  1.00 15.04     A    C
ATOM   1288  CB   VAL A 279    184.631 181.010   -0.524  1.00 14.76     A    C
ATOM   1289  CG1  VAL A 279    184.436 179.985   -1.646  1.00 10.49     A    C
ATOM   1290  CG2  VAL A 279    184.256 182.419   -0.971  1.00  9.51     A    C
ATOM   1291  C    VAL A 279    182.347 180.399    0.352  1.00 15.66     A    C
ATOM   1292  O    VAL A 279    181.902 179.259    0.162  1.00 16.74     A    O
ATOM   1293  N    HIS A 280    181.604 181.491    0.276  1.00 14.84     A    N
ATOM   1294  CA   HIS A 280    180.224 181.389   -0.133  1.00 17.48     A    C
ATOM   1295  CB   HIS A 280    179.332 182.330    0.694  1.00 14.36     A    C
ATOM   1296  CG   HIS A 280    177.885 182.230    0.336  1.00 16.95     A    C
ATOM   1297  CD2  HIS A 280    177.154 181.176   -0.102  1.00 16.10     A    C
ATOM   1298  ND1  HIS A 280    177.045 183.323    0.300  1.00 15.76     A    N
ATOM   1299  CE1  HIS A 280    175.864 182.946   -0.154  1.00 17.22     A    C
ATOM   1300  NE2  HIS A 280    175.903 181.648   -0.407  1.00 18.56     A    N
ATOM   1301  C    HIS A 280    180.236 181.772   -1.622  1.00 17.74     A    C
ATOM   1302  O    HIS A 280    180.439 182.942   -1.989  1.00 16.22     A    O
ATOM   1303  N    ALA A 281    180.048 180.773   -2.480  1.00 15.79     A    N
ATOM   1304  CA   ALA A 281    180.066 180.984   -3.930  1.00 17.35     A    C
ATOM   1305  CB   ALA A 281    181.103 180.047   -4.565  1.00 15.43     A    C
ATOM   1306  C    ALA A 281    178.693 180.779   -4.610  1.00 18.31     A    C
ATOM   1307  O    ALA A 281    178.489 179.809   -5.311  1.00 18.09     A    O
ATOM   1308  N    PRO A 282    177.754 181.726   -4.412  1.00 20.27     A    N
ATOM   1309  CD   PRO A 282    177.983 182.946   -3.597  1.00 20.44     A    C
ATOM   1310  CA   PRO A 282    176.381 181.701   -4.974  1.00 21.92     A    C
ATOM   1311  CB   PRO A 282    175.770 183.032   -4.483  1.00 21.47     A    C
ATOM   1312  CG   PRO A 282    176.575 183.413   -3.327  1.00 21.85     A    C
ATOM   1313  C    PRO A 282    176.326 181.581   -6.480  1.00 22.24     A    C
ATOM   1314  O    PRO A 282    175.611 180.729   -6.987  1.00 24.89     A    O
ATOM   1315  N    SER A 283    177.088 182.439   -7.163  1.00 24.90     A    N
ATOM   1316  CA   SER A 283    177.131 182.464   -8.629  1.00 28.30     A    C
ATOM   1317  CB   SER A 283    176.711 183.837   -9.202  1.00 26.31     A    C
ATOM   1318  OG   SER A 283    175.659 184.461   -8.492  1.00 30.72     A    O
ATOM   1319  C    SER A 283    178.454 182.133   -9.327  1.00 27.14     A    C
ATOM   1320  O    SER A 283    178.563 181.133  -10.033  1.00 31.35     A    O
ATOM   1321  N    SER A 284    179.434 183.011   -9.147  1.00 25.92     A    N
ATOM   1322  CA   SER A 284    180.749 182.937   -9.789  1.00 26.41     A    C
ATOM   1323  CB   SER A 284    181.476 184.252   -9.583  1.00 26.11     A    C
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ATOM   1324  OG   SER A 284    180.590 185.288  -9.231  1.00 32.06      A    O
ATOM   1325  C    SER A 284    181.720 181.869  -9.346  1.00 24.70      A    C
ATOM   1326  O    SER A 284    181.617 181.347  -8.254  1.00 26.06      A    O
ATOM   1327  N    ARG A 285    182.717 181.636 -10.192  1.00 23.60      A    N
ATOM   1328  CA   ARG A 285    183.782 180.701  -9.910  1.00 25.00      A    C
ATOM   1329  CB   ARG A 285    184.337 180.169 -11.225  1.00 25.95      A    C
ATOM   1330  CG   ARG A 285    183.367 179.201 -11.935  1.00 31.00      A    C
ATOM   1331  CD   ARG A 285    184.154 178.152 -12.746  1.00 38.12      A    C
ATOM   1332  NE   ARG A 285    184.419 178.543 -14.135  1.00 42.96      A    N
ATOM   1333  CZ   ARG A 285    185.202 177.856 -14.971  1.00 45.91      A    C
ATOM   1334  NH1  ARG A 285    185.808 176.744 -14.560  1.00 46.53      A    N
ATOM   1335  NH2  ARG A 285    185.364 178.267 -16.225  1.00 46.52      A    N
ATOM   1336  C    ARG A 285    184.869 181.436  -9.074  1.00 23.19      A    C
ATOM   1337  O    ARG A 285    184.791 182.652  -8.873  1.00 23.63      A    O
ATOM   1338  N    ARG A 286    185.871 180.720  -8.578  1.00 22.25      A    N
ATOM   1339  CA   ARG A 286    186.898 181.369  -7.770  1.00 18.11      A    C
ATOM   1340  CB   ARG A 286    186.781 180.826  -6.344  1.00 16.41      A    C
ATOM   1341  CG   ARG A 286    185.467 181.252  -5.671  1.00 17.03      A    C
ATOM   1342  CD   ARG A 286    185.642 182.655  -5.179  1.00 16.99      A    C
ATOM   1343  NE   ARG A 286    184.443 183.221  -4.632  1.00 25.38      A    N
ATOM   1344  CZ   ARG A 286    184.398 184.417  -4.072  1.00 26.94      A    C
ATOM   1345  NH1  ARG A 286    185.509 185.138  -3.995  1.00 28.48      A    N
ATOM   1346  NH2  ARG A 286    183.244 184.894  -3.605  1.00 30.62      A    N
ATOM   1347  C    ARG A 286    188.309 181.189  -8.339  1.00 19.47      A    C
ATOM   1348  O    ARG A 286    188.537 180.305  -9.174  1.00 17.62      A    O
ATOM   1349  N    TPO A 287    189.226 182.041  -7.916  1.00 21.77      A    N
ATOM   1350  CA   TPO A 287    190.558 181.974  -8.377  1.00 21.28      A    C
ATOM   1351  CB   TPO A 287    190.775 183.306  -9.113  1.00 25.22      A    C
ATOM   1352  CG2  TPO A 287    189.942 183.372 -10.421  1.00 22.17      A    C
ATOM   1353  OG1  TPO A 287    190.484 184.557  -8.448  1.00 33.29      A    O
ATOM   1354  P    TPO A 287    191.582 185.763  -8.444  1.00 33.70      A    P
ATOM   1355  O1P  TPO A 287    190.902 186.991  -9.195  1.00 41.17      A    O
ATOM   1356  O2P  TPO A 287    192.847 185.199  -9.239  1.00 37.62      A    O
ATOM   1357  O3P  TPO A 287    191.990 186.067  -6.912  1.00 41.70      A    O
ATOM   1358  C    TPO A 287    191.612 181.717  -7.265  1.00 16.99      A    C
ATOM   1359  O    TPO A 287    192.886 181.536  -7.600  1.00 25.86      A    O
ATOM   1360  N    TPO A 288    191.139 181.614  -6.033  1.00 16.91      A    N
ATOM   1361  CA   TPO A 288    192.066 181.441  -4.938  1.00 16.31      A    C
ATOM   1362  CB   TPO A 288    191.262 181.750  -3.672  1.00 18.77      A    C
ATOM   1363  CG2  TPO A 288    192.190 181.949  -2.512  1.00 16.50      A    C
ATOM   1364  OG1  TPO A 288    190.694 183.015  -3.936  1.00 23.64      A    O
ATOM   1365  P    TPO A 288    189.163 183.188  -3.329  1.00 18.56      A    P
ATOM   1366  O1P  TPO A 288    189.234 182.723  -1.818  1.00 19.25      A    O
ATOM   1367  O2P  TPO A 288    188.217 182.242  -4.154  1.00 24.67      A    O
ATOM   1368  O3P  TPO A 288    188.820 184.760  -3.320  1.00 24.29      A    O
ATOM   1369  C    TPO A 288    192.828 180.109  -4.873  1.00 17.62      A    C
ATOM   1370  O    TPO A 288    192.132 178.986  -5.036  1.00 16.48      A    O
ATOM   1371  N    LEU A 289    194.152 180.122  -4.825  1.00 19.62      A    N
ATOM   1372  CA   LEU A 289    194.793 178.875  -4.419  1.00 20.29      A    C
ATOM   1373  CB   LEU A 289    196.229 178.759  -4.993  1.00 21.71      A    C
ATOM   1374  CG   LEU A 289    196.977 177.458  -4.598  1.00 25.59      A    C
ATOM   1375  CD1  LEU A 289    196.506 176.298  -5.488  1.00 30.17      A    C
ATOM   1376  CD2  LEU A 289    198.475 177.596  -4.769  1.00 26.69      A    C
ATOM   1377  C    LEU A 289    194.833 178.800  -2.900  1.00 17.60      A    C
ATOM   1378  O    LEU A 289    195.428 179.646  -2.272  1.00 20.61      A    O
ATOM   1379  N    CYS A 290    194.191 177.810  -2.307  1.00 16.97      A    N
ATOM   1380  CA   CYS A 290    194.204 177.679  -0.844  1.00 18.91      A    C
ATOM   1381  CB   CYS A 290    193.102 178.535  -0.201  1.00 16.86      A    C
ATOM   1382  SG   CYS A 290    191.434 178.234  -0.820  1.00 22.10      A    S
ATOM   1383  C    CYS A 290    194.003 176.211  -0.453  1.00 17.81      A    C
ATOM   1384  O    CYS A 290    193.554 175.403  -1.266  1.00 15.28      A    O
ATOM   1385  N    GLY A 291    194.340 175.862   0.786  1.00 19.11      A    N
ATOM   1386  CA   GLY A 291    194.203 174.484   1.227  1.00 18.98      A    C
ATOM   1387  C    GLY A 291    195.536 173.896   1.644  1.00 19.71      A    C
ATOM   1388  O    GLY A 291    196.458 174.606   2.047  1.00 21.01      A    O
ATOM   1389  N    THR A 292    195.626 172.584   1.523  1.00 18.60      A    N
ATOM   1390  CA   THR A 292    196.800 171.837   1.903  1.00 16.87      A    C
ATOM   1391  CB   THR A 292    196.378 170.657   2.760  1.00 19.75      A    C
ATOM   1392  OG1  THR A 292    195.457 171.126   3.752  1.00 25.57      A    O
ATOM   1393  CG2  THR A 292    197.563 169.991   3.407  1.00 18.64      A    C
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ATOM   1394  C    THR A 292    197.453 171.308   0.652  1.00 17.38     A    C
ATOM   1395  O    THR A 292    196.772 170.864  -0.269  1.00 16.20     A    O
ATOM   1396  N    LEU A 293    198.780 171.347   0.631  1.00 18.38     A    N
ATOM   1397  CA   LEU A 293    199.545 170.868  -0.511  1.00 18.67     A    C
ATOM   1398  CB   LEU A 293    201.011 170.747  -0.102  1.00 18.33     A    C
ATOM   1399  CG   LEU A 293    201.947 170.217  -1.188  1.00 19.70     A    C
ATOM   1400  CD1  LEU A 293    201.997 171.229  -2.316  1.00 20.14     A    C
ATOM   1401  CD2  LEU A 293    203.332 169.962  -0.603  1.00 18.52     A    C
ATOM   1402  C    LEU A 293    199.063 169.533  -1.126  1.00 19.06     A    C
ATOM   1403  O    LEU A 293    198.654 169.496  -2.287  1.00 16.78     A    O
ATOM   1404  N    ASP A 294    199.106 168.447  -0.355  1.00 16.52     A    N
ATOM   1405  CA   ASP A 294    198.701 167.143  -0.868  1.00 15.08     A    C
ATOM   1406  CB   ASP A 294    199.029 166.048   0.164  1.00 19.73     A    C
ATOM   1407  CG   ASP A 294    200.527 165.669   0.175  1.00 23.92     A    C
ATOM   1408  OD1  ASP A 294    201.065 165.254  -0.891  1.00 23.94     A    O
ATOM   1409  OD2  ASP A 294    201.161 165.783   1.245  1.00 24.71     A    O
ATOM   1410  C    ASP A 294    197.239 167.026  -1.309  1.00 14.50     A    C
ATOM   1411  O    ASP A 294    196.875 166.084  -2.011  1.00 11.76     A    O
ATOM   1412  N    TYR A 295    196.411 167.996  -0.923  1.00 13.78     A    N
ATOM   1413  CA   TYR A 295    194.993 167.963  -1.267  1.00 12.35     A    C
ATOM   1414  CB   TYR A 295    194.156 168.157  -0.001  1.00 12.74     A    C
ATOM   1415  CG   TYR A 295    194.061 166.933   0.868  1.00 16.79     A    C
ATOM   1416  CD1  TYR A 295    195.179 166.449   1.561  1.00 19.00     A    C
ATOM   1417  CE1  TYR A 295    195.119 165.265   2.307  1.00 18.70     A    C
ATOM   1418  CD2  TYR A 295    192.871 166.216   0.947  1.00 16.93     A    C
ATOM   1419  CE2  TYR A 295    192.792 165.035   1.682  1.00 21.69     A    C
ATOM   1420  CZ   TYR A 295    193.916 164.559   2.357  1.00 22.19     A    C
ATOM   1421  OH   TYR A 295    193.805 163.362   3.046  1.00 26.24     A    O
ATOM   1422  C    TYR A 295    194.542 168.963  -2.336  1.00 10.66     A    C
ATOM   1423  O    TYR A 295    193.387 168.955  -2.741  1.00 11.85     A    O
ATOM   1424  N    LEU A 296    195.460 169.797  -2.805  1.00 10.92     A    N
ATOM   1425  CA   LEU A 296    195.119 170.800  -3.807  1.00 13.78     A    C
ATOM   1426  CB   LEU A 296    196.328 171.679  -4.144  1.00 11.44     A    C
ATOM   1427  CG   LEU A 296    196.931 172.488  -2.995  1.00 15.78     A    C
ATOM   1428  CD1  LEU A 296    198.287 173.081  -3.411  1.00 13.74     A    C
ATOM   1429  CD2  LEU A 296    195.954 173.585  -2.582  1.00 15.05     A    C
ATOM   1430  C    LEU A 296    194.591 170.206  -5.108  1.00 14.17     A    C
ATOM   1431  O    LEU A 296    195.144 169.255  -5.648  1.00 12.20     A    O
ATOM   1432  N    PRO A 297    193.504 170.783  -5.631  1.00 13.56     A    N
ATOM   1433  CD   PRO A 297    192.676 171.841  -5.015  1.00 13.83     A    C
ATOM   1434  CA   PRO A 297    192.921 170.302  -6.893  1.00 12.38     A    C
ATOM   1435  CB   PRO A 297    191.516 170.923  -6.872  1.00 14.10     A    C
ATOM   1436  CG   PRO A 297    191.744 172.233  -6.155  1.00 13.16     A    C
ATOM   1437  C    PRO A 297    193.772 170.826  -8.083  1.00 14.86     A    C
ATOM   1438  O    PRO A 297    194.361 171.906  -7.993  1.00 14.20     A    O
ATOM   1439  N    PRO A 298    193.830 170.080  -9.213  1.00 14.90     A    N
ATOM   1440  CD   PRO A 298    193.074 168.838  -9.478  1.00 13.08     A    C
ATOM   1441  CA   PRO A 298    194.606 170.479 -10.403  1.00 12.06     A    C
ATOM   1442  CB   PRO A 298    194.228 169.428 -11.450  1.00 12.23     A    C
ATOM   1443  CG   PRO A 298    193.813 168.254 -10.653  1.00 11.96     A    C
ATOM   1444  C    PRO A 298    194.250 171.874 -10.894  1.00 12.75     A    C
ATOM   1445  O    PRO A 298    195.124 172.677 -11.218  1.00 12.47     A    O
ATOM   1446  N    GLU A 299    192.954 172.154 -10.954  1.00 12.43     A    N
ATOM   1447  CA   GLU A 299    192.495 173.447 -11.427  1.00 15.93     A    C
ATOM   1448  CB   GLU A 299    190.956 173.520 -11.439  1.00 15.99     A    C
ATOM   1449  CG   GLU A 299    190.283 173.211 -10.098  1.00 20.28     A    C
ATOM   1450  CD   GLU A 299    189.893 171.729  -9.951  1.00 22.71     A    C
ATOM   1451  OE1  GLU A 299    190.741 170.854 -10.262  1.00 22.72     A    O
ATOM   1452  OE2  GLU A 299    188.743 171.450  -9.525  1.00 19.63     A    O
ATOM   1453  C    GLU A 299    193.068 174.609 -10.615  1.00 17.99     A    C
ATOM   1454  O    GLU A 299    193.217 175.706 -11.147  1.00 21.24     A    O
ATOM   1455  N    MET A 300    193.385 174.401  -9.340  1.00 17.80     A    N
ATOM   1456  CA   MET A 300    193.949 175.497  -8.541  1.00 21.17     A    C
ATOM   1457  CB   MET A 300    193.781 175.248  -7.031  1.00 21.87     A    C
ATOM   1458  CG   MET A 300    192.562 175.935  -6.417  1.00 24.58     A    C
ATOM   1459  SD   MET A 300    192.223 175.516  -4.665  1.00 23.96     A    S
ATOM   1460  CE   MET A 300    193.835 175.427  -4.097  1.00 25.92     A    C
ATOM   1461  C    MET A 300    195.429 175.697  -8.845  1.00 22.52     A    C
ATOM   1462  O    MET A 300    195.900 176.818  -9.034  1.00 17.97     A    O
ATOM   1463  N    ILE A 301    196.153 174.592  -8.905  1.00 25.70     A    N
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ATOM	1464	CA	ILE	A	301	197.573	174.627	-9.160	1.00	28.05	A	C
ATOM	1465	CB	ILE	A	301	198.162	173.192	-9.173	1.00	31.23	A	C
ATOM	1466	CG2	ILE	A	301	199.640	173.228	-9.502	1.00	33.00	A	C
ATOM	1467	CG1	ILE	A	301	197.977	172.525	-7.813	1.00	34.03	A	C
ATOM	1468	CD1	ILE	A	301	198.227	171.019	-7.871	1.00	39.59	A	C
ATOM	1469	C	ILE	A	301	197.857	175.289	-10.501	1.00	28.39	A	C
ATOM	1470	O	ILE	A	301	198.736	176.140	-10.608	1.00	28.70	A	O
ATOM	1471	N	GLU	A	302	197.091	174.902	-11.513	1.00	29.15	A	N
ATOM	1472	CA	GLU	A	302	197.260	175.411	-12.864	1.00	27.63	A	C
ATOM	1473	CB	GLU	A	302	196.614	174.449	-13.847	1.00	28.51	A	C
ATOM	1474	CG	GLU	A	302	197.309	173.128	-13.932	1.00	31.90	A	C
ATOM	1475	CD	GLU	A	302	196.442	172.074	-14.604	1.00	34.88	A	C
ATOM	1476	OE1	GLU	A	302	195.546	172.441	-15.420	1.00	35.44	A	O
ATOM	1477	OE2	GLU	A	302	196.663	170.878	-14.322	1.00	33.88	A	O
ATOM	1478	C	GLU	A	302	196.759	176.817	-13.160	1.00	26.56	A	C
ATOM	1479	O	GLU	A	302	196.730	177.216	-14.323	1.00	25.45	A	O
ATOM	1480	N	GLY	A	303	196.351	177.553	-12.130	1.00	26.68	A	N
ATOM	1481	CA	GLY	A	303	195.891	178.915	-12.333	1.00	24.63	A	C
ATOM	1482	C	GLY	A	303	194.576	179.072	-13.077	1.00	26.17	A	C
ATOM	1483	O	GLY	A	303	194.333	180.080	-13.739	1.00	25.60	A	O
ATOM	1484	N	ARG	A	304	193.718	178.068	-12.976	1.00	27.24	A	N
ATOM	1485	CA	ARG	A	304	192.409	178.095	-13.617	1.00	26.83	A	C
ATOM	1486	CB	ARG	A	304	192.068	176.721	-14.229	1.00	26.35	A	C
ATOM	1487	CG	ARG	A	304	192.726	176.410	-15.584	1.00	35.40	A	C
ATOM	1488	CD	ARG	A	304	191.737	176.691	-16.749	1.00	43.36	A	C
ATOM	1489	NE	ARG	A	304	192.316	176.665	-18.095	1.00	47.14	A	N
ATOM	1490	CZ	ARG	A	304	191.602	176.827	-19.210	1.00	51.59	A	C
ATOM	1491	NH1	ARG	A	304	190.290	177.025	-19.121	1.00	54.10	A	N
ATOM	1492	NH2	ARG	A	304	192.189	176.794	-20.413	1.00	53.71	A	N
ATOM	1493	C	ARG	A	304	191.386	178.429	-12.536	1.00	27.81	A	C
ATOM	1494	O	ARG	A	304	191.684	178.391	-11.326	1.00	29.71	A	O
ATOM	1495	N	MET	A	305	190.178	178.746	-12.969	1.00	25.68	A	N
ATOM	1496	CA	MET	A	305	189.112	179.048	-12.038	1.00	26.17	A	C
ATOM	1497	CB	MET	A	305	188.027	179.807	-12.757	1.00	30.29	A	C
ATOM	1498	CG	MET	A	305	188.517	181.155	-13.154	1.00	35.60	A	C
ATOM	1499	SD	MET	A	305	187.192	182.156	-13.740	1.00	46.48	A	S
ATOM	1500	CE	MET	A	305	187.949	182.896	-15.291	1.00	45.95	A	C
ATOM	1501	C	MET	A	305	188.544	177.772	-11.466	1.00	23.39	A	C
ATOM	1502	O	MET	A	305	188.653	176.721	-12.082	1.00	23.54	A	O
ATOM	1503	N	HIS	A	306	187.934	177.852	-10.290	1.00	21.16	A	N
ATOM	1504	CA	HIS	A	306	187.363	176.655	-9.703	1.00	17.32	A	C
ATOM	1505	CB	HIS	A	306	188.312	176.035	-8.671	1.00	15.79	A	C
ATOM	1506	CG	HIS	A	306	188.498	176.853	-7.431	1.00	14.36	A	C
ATOM	1507	CD2	HIS	A	306	187.895	176.788	-6.218	1.00	12.29	A	C
ATOM	1508	ND1	HIS	A	306	189.411	177.880	-7.347	1.00	15.91	A	N
ATOM	1509	CE1	HIS	A	306	189.366	178.411	-6.139	1.00	13.45	A	C
ATOM	1510	NE2	HIS	A	306	188.453	177.767	-5.434	1.00	10.38	A	N
ATOM	1511	C	HIS	A	306	186.000	176.913	-9.078	1.00	18.65	A	C
ATOM	1512	O	HIS	A	306	185.528	178.063	-9.040	1.00	15.46	A	O
ATOM	1513	N	ASP	A	307	185.376	175.822	-8.622	1.00	18.40	A	N
ATOM	1514	CA	ASP	A	307	184.057	175.824	-7.986	1.00	20.30	A	C
ATOM	1515	CB	ASP	A	307	182.969	175.631	-9.035	1.00	24.34	A	C
ATOM	1516	CG	ASP	A	307	183.174	174.374	-9.865	1.00	30.83	A	C
ATOM	1517	OD1	ASP	A	307	183.553	173.321	-9.286	1.00	33.25	A	O
ATOM	1518	OD2	ASP	A	307	182.949	174.430	-11.098	1.00	33.88	A	O
ATOM	1519	C	ASP	A	307	183.948	174.721	-6.917	1.00	19.00	A	C
ATOM	1520	O	ASP	A	307	184.973	174.176	-6.486	1.00	21.60	A	O
ATOM	1521	N	GLU	A	308	182.720	174.368	-6.519	1.00	18.46	A	N
ATOM	1522	CA	GLU	A	308	182.507	173.358	-5.479	1.00	17.19	A	C
ATOM	1523	CB	GLU	A	308	181.014	173.257	-5.075	1.00	19.78	A	C
ATOM	1524	CG	GLU	A	308	180.067	172.849	-6.190	1.00	29.00	A	C
ATOM	1525	CD	GLU	A	308	178.600	172.827	-5.777	1.00	33.58	A	C
ATOM	1526	OE1	GLU	A	308	178.121	173.800	-5.139	1.00	38.06	A	O
ATOM	1527	OE2	GLU	A	308	177.910	171.836	-6.115	1.00	41.55	A	O
ATOM	1528	C	GLU	A	308	183.048	171.977	-5.820	1.00	14.99	A	C
ATOM	1529	O	GLU	A	308	183.135	171.106	-4.946	1.00	14.14	A	O
ATOM	1530	N	LYS	A	309	183.452	171.780	-7.066	1.00	12.83	A	N
ATOM	1531	CA	LYS	A	309	183.997	170.488	-7.449	1.00	16.26	A	C
ATOM	1532	CB	LYS	A	309	184.061	170.376	-8.972	1.00	18.82	A	C
ATOM	1533	CG	LYS	A	309	182.731	170.086	-9.593	1.00	21.29	A	C

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ATOM   1534  CD  LYS A 309      182.215 168.769  -9.041  1.00 29.52      A    C
ATOM   1535  CE  LYS A 309      181.020 168.263  -9.842  1.00 30.17      A    C
ATOM   1536  NZ  LYS A 309      180.649 166.912  -9.358  1.00 35.57      A    N
ATOM   1537  C   LYS A 309      185.370 170.202  -6.826  1.00 16.49      A    C
ATOM   1538  O   LYS A 309      185.816 169.051  -6.804  1.00 15.73      A    O
ATOM   1539  N   VAL A 310      186.025 171.233  -6.291  1.00 15.44      A    N
ATOM   1540  CA  VAL A 310      187.319 171.020  -5.662  1.00 13.90      A    C
ATOM   1541  CB  VAL A 310      188.051 172.358  -5.281  1.00 15.52      A    C
ATOM   1542  CG1 VAL A 310      188.197 173.247  -6.503  1.00  7.36      A    C
ATOM   1543  CG2 VAL A 310      187.332 173.065  -4.151  1.00 12.70      A    C
ATOM   1544  C   VAL A 310      187.132 170.159  -4.410  1.00 17.23      A    C
ATOM   1545  O   VAL A 310      188.008 169.357  -4.083  1.00 19.39      A    O
ATOM   1546  N   ASP A 311      186.013 170.306  -3.700  1.00 14.90      A    N
ATOM   1547  CA  ASP A 311      185.804 169.452  -2.541  1.00 14.20      A    C
ATOM   1548  CB  ASP A 311      184.574 169.876  -1.727  1.00 16.81      A    C
ATOM   1549  CG  ASP A 311      184.778 171.192  -0.974  1.00 16.28      A    C
ATOM   1550  OD1 ASP A 311      185.950 171.565  -0.731  1.00 12.12      A    O
ATOM   1551  OD2 ASP A 311      183.756 171.832  -0.617  1.00 13.33      A    O
ATOM   1552  C   ASP A 311      185.640 167.983  -2.979  1.00 14.98      A    C
ATOM   1553  O   ASP A 311      185.953 167.090  -2.202  1.00 16.71      A    O
ATOM   1554  N   LEU A 312      185.162 167.723  -4.205  1.00 13.32      A    N
ATOM   1555  CA  LEU A 312      185.019 166.342  -4.703  1.00 13.83      A    C
ATOM   1556  CB  LEU A 312      184.238 166.279  -6.028  1.00 12.75      A    C
ATOM   1557  CG  LEU A 312      182.708 166.216  -6.008  1.00 16.02      A    C
ATOM   1558  CD1 LEU A 312      182.269 164.959  -5.273  1.00 14.12      A    C
ATOM   1559  CD2 LEU A 312      182.118 167.482  -5.336  1.00 16.09      A    C
ATOM   1560  C   LEU A 312      186.399 165.749  -4.951  1.00 13.94      A    C
ATOM   1561  O   LEU A 312      186.616 164.546  -4.837  1.00 15.77      A    O
ATOM   1562  N   TRP A 313      187.338 166.594  -5.329  1.00 15.19      A    N
ATOM   1563  CA  TRP A 313      188.673 166.093  -5.553  1.00 13.67      A    C
ATOM   1564  CB  TRP A 313      189.505 167.131  -6.287  1.00 10.13      A    C
ATOM   1565  CG  TRP A 313      190.948 166.889  -6.208  1.00  9.91      A    C
ATOM   1566  CD2 TRP A 313      191.775 166.296  -7.214  1.00 11.32      A    C
ATOM   1567  CE2 TRP A 313      193.109 166.370  -6.750  1.00 10.99      A    C
ATOM   1568  CE3 TRP A 313      191.523 165.729  -8.471  1.00  8.98      A    C
ATOM   1569  CD1 TRP A 313      191.784 167.266  -5.199  1.00 10.59      A    C
ATOM   1570  NE1 TRP A 313      193.083 166.960  -5.513  1.00  9.03      A    N
ATOM   1571  CZ2 TRP A 313      194.190 165.890  -7.494  1.00 10.17      A    C
ATOM   1572  CZ3 TRP A 313      192.598 165.254  -9.214  1.00 13.43      A    C
ATOM   1573  CH2 TRP A 313      193.923 165.344  -8.723  1.00 12.05      A    C
ATOM   1574  C   TRP A 313      189.258 165.776  -4.183  1.00 12.20      A    C
ATOM   1575  O   TRP A 313      189.803 164.704  -3.983  1.00 11.38      A    O
ATOM   1576  N   SER A 314      189.111 166.700  -3.236  1.00 13.68      A    N
ATOM   1577  CA  SER A 314      189.636 166.492  -1.893  1.00 16.07      A    C
ATOM   1578  CB  SER A 314      189.229 167.643  -0.984  1.00 17.53      A    C
ATOM   1579  OG  SER A 314      190.261 168.612  -0.972  1.00 25.41      A    O
ATOM   1580  C   SER A 314      189.172 165.168  -1.283  1.00 16.32      A    C
ATOM   1581  O   SER A 314      189.942 164.475  -0.628  1.00 15.29      A    O
ATOM   1582  N   LEU A 315      187.907 164.838  -1.517  1.00 15.55      A    N
ATOM   1583  CA  LEU A 315      187.311 163.618  -1.029  1.00 15.03      A    C
ATOM   1584  CB  LEU A 315      185.822 163.597  -1.392  1.00 15.51      A    C
ATOM   1585  CG  LEU A 315      184.951 162.599  -0.624  1.00 17.84      A    C
ATOM   1586  CD1 LEU A 315      184.877 163.015   0.840  1.00 17.24      A    C
ATOM   1587  CD2 LEU A 315      183.555 162.551  -1.222  1.00 15.53      A    C
ATOM   1588  C   LEU A 315      188.031 162.402  -1.626  1.00 15.76      A    C
ATOM   1589  O   LEU A 315      188.237 161.399  -0.935  1.00 16.26      A    O
ATOM   1590  N   GLY A 316      188.414 162.480  -2.899  1.00 13.03      A    N
ATOM   1591  CA  GLY A 316      189.109 161.357  -3.507  1.00 12.73      A    C
ATOM   1592  C   GLY A 316      190.486 161.200  -2.878  1.00 13.41      A    C
ATOM   1593  O   GLY A 316      190.933 160.092  -2.576  1.00 11.78      A    O
ATOM   1594  N   VAL A 317      191.167 162.329  -2.702  1.00 12.49      A    N
ATOM   1595  CA  VAL A 317      192.481 162.351  -2.089  1.00 11.35      A    C
ATOM   1596  CB  VAL A 317      193.034 163.812  -1.984  1.00 11.65      A    C
ATOM   1597  CG1 VAL A 317      194.231 163.859  -1.079  1.00 10.54      A    C
ATOM   1598  CG2 VAL A 317      193.431 164.323  -3.360  1.00  8.84      A    C
ATOM   1599  C   VAL A 317      192.362 161.759  -0.680  1.00 12.97      A    C
ATOM   1600  O   VAL A 317      193.152 160.887  -0.280  1.00 11.80      A    O
ATOM   1601  N   LEU A 318      191.355 162.229   0.052  1.00 10.99      A    N
ATOM   1602  CA  LEU A 318      191.097 161.785   1.408  1.00 12.40      A    C
ATOM   1603  CB  LEU A 318      189.958 162.618   2.007  1.00 15.26      A    C
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ATOM   1604  CG   LEU A 318      189.652 162.340   3.475  1.00 15.97      A    C
ATOM   1605  CD1  LEU A 318      190.731 162.990   4.377  1.00 14.54      A    C
ATOM   1606  CD2  LEU A 318      188.310 162.873   3.783  1.00 13.89      A    C
ATOM   1607  C    LEU A 318      190.760 160.286   1.527  1.00 12.64      A    C
ATOM   1608  O    LEU A 318      191.232 159.610   2.437  1.00 10.92      A    O
ATOM   1609  N    CYS A 319      189.936 159.778   0.617  1.00 12.91      A    N
ATOM   1610  CA   CYS A 319      189.547 158.372   0.623  1.00 15.63      A    C
ATOM   1611  CB   CYS A 319      188.512 158.092  -0.479  1.00 20.57      A    C
ATOM   1612  SG   CYS A 319      187.933 156.363  -0.531  1.00 23.04      A    S
ATOM   1613  C    CYS A 319      190.757 157.490   0.394  1.00 15.66      A    C
ATOM   1614  O    CYS A 319      190.906 156.439   1.025  1.00 15.68      A    O
ATOM   1615  N    TYR A 320      191.614 157.922  -0.527  1.00 13.11      A    N
ATOM   1616  CA   TYR A 320      192.833 157.194  -0.827  1.00 12.42      A    C
ATOM   1617  CB   TYR A 320      193.560 157.870  -1.999  1.00 12.90      A    C
ATOM   1618  CG   TYR A 320      194.879 157.235  -2.378  1.00 11.79      A    C
ATOM   1619  CD1  TYR A 320      196.014 157.423  -1.594  1.00 11.63      A    C
ATOM   1620  CE1  TYR A 320      197.213 156.803  -1.906  1.00 13.39      A    C
ATOM   1621  CD2  TYR A 320      194.978 156.414  -3.495  1.00 13.02      A    C
ATOM   1622  CE2  TYR A 320      196.167 155.790  -3.822  1.00 14.81      A    C
ATOM   1623  CZ   TYR A 320      197.287 155.980  -3.023  1.00 16.61      A    C
ATOM   1624  OH   TYR A 320      198.459 155.299  -3.325  1.00 14.17      A    O
ATOM   1625  C    TYR A 320      193.727 157.138   0.428  1.00 13.58      A    C
ATOM   1626  O    TYR A 320      194.217 156.062   0.797  1.00 12.75      A    O
ATOM   1627  N    GLU A 321      193.922 158.287   1.083  1.00 12.98      A    N
ATOM   1628  CA   GLU A 321      194.752 158.359   2.289  1.00 13.87      A    C
ATOM   1629  CB   GLU A 321      194.858 159.798   2.815  1.00 15.03      A    C
ATOM   1630  CG   GLU A 321      196.109 160.011   3.685  1.00 22.02      A    C
ATOM   1631  CD   GLU A 321      196.204 161.394   4.326  1.00 27.52      A    C
ATOM   1632  OE1  GLU A 321      195.889 162.413   3.676  1.00 30.94      A    O
ATOM   1633  OE2  GLU A 321      196.621 161.470   5.494  1.00 31.35      A    O
ATOM   1634  C    GLU A 321      194.218 157.470   3.416  1.00 14.01      A    C
ATOM   1635  O    GLU A 321      194.986 156.877   4.166  1.00 14.13      A    O
ATOM   1636  N    PHE A 322      192.899 157.384   3.536  1.00 13.55      A    N
ATOM   1637  CA   PHE A 322      192.291 156.568   4.576  1.00 12.09      A    C
ATOM   1638  CB   PHE A 322      190.765 156.710   4.570  1.00  6.70      A    C
ATOM   1639  CG   PHE A 322      190.272 157.975   5.176  1.00  6.79      A    C
ATOM   1640  CD1  PHE A 322      191.144 158.836   5.838  1.00  7.89      A    C
ATOM   1641  CD2  PHE A 322      188.933 158.312   5.106  1.00  8.09      A    C
ATOM   1642  CE1  PHE A 322      190.688 160.011   6.416  1.00  6.90      A    C
ATOM   1643  CE2  PHE A 322      188.464 159.497   5.689  1.00 10.00      A    C
ATOM   1644  CZ   PHE A 322      189.346 160.340   6.345  1.00  8.24      A    C
ATOM   1645  C    PHE A 322      192.629 155.107   4.398  1.00 12.56      A    C
ATOM   1646  O    PHE A 322      192.888 154.401   5.375  1.00 14.57      A    O
ATOM   1647  N    LEU A 323      192.629 154.663   3.147  1.00 11.23      A    N
ATOM   1648  CA   LEU A 323      192.876 153.269   2.830  1.00 10.81      A    C
ATOM   1649  CB   LEU A 323      192.181 152.923   1.510  1.00 11.58      A    C
ATOM   1650  CG   LEU A 323      190.650 152.911   1.467  1.00 11.82      A    C
ATOM   1651  CD1  LEU A 323      190.149 152.693   0.033  1.00  1.00      A    C
ATOM   1652  CD2  LEU A 323      190.158 151.799   2.429  1.00  8.83      A    C
ATOM   1653  C    LEU A 323      194.341 152.888   2.725  1.00 13.31      A    C
ATOM   1654  O    LEU A 323      194.734 151.769   3.072  1.00 13.08      A    O
ATOM   1655  N    VAL A 324      195.144 153.832   2.253  1.00 13.79      A    N
ATOM   1656  CA   VAL A 324      196.552 153.589   2.028  1.00 13.43      A    C
ATOM   1657  CB   VAL A 324      196.958 154.241   0.703  1.00 13.53      A    C
ATOM   1658  CG1  VAL A 324      198.387 153.909   0.365  1.00 10.33      A    C
ATOM   1659  CG2  VAL A 324      196.009 153.788  -0.384  1.00 10.31      A    C
ATOM   1660  C    VAL A 324      197.439 154.085   3.153  1.00 15.36      A    C
ATOM   1661  O    VAL A 324      198.496 153.525   3.419  1.00 15.10      A    O
ATOM   1662  N    GLY A 325      197.019 155.146   3.819  1.00 16.58      A    N
ATOM   1663  CA   GLY A 325      197.834 155.647   4.902  1.00 18.98      A    C
ATOM   1664  C    GLY A 325      198.687 156.819   4.459  1.00 22.31      A    C
ATOM   1665  O    GLY A 325      199.484 157.330   5.245  1.00 22.91      A    O
ATOM   1666  N    LYS A 326      198.556 157.238   3.204  1.00 22.34      A    N
ATOM   1667  CA   LYS A 326      199.299 158.399   2.743  1.00 20.73      A    C
ATOM   1668  CB   LYS A 326      200.775 158.057   2.468  1.00 22.54      A    C
ATOM   1669  CG   LYS A 326      201.002 157.016   1.405  1.00 26.76      A    C
ATOM   1670  CD   LYS A 326      202.478 156.728   1.181  1.00 29.37      A    C
ATOM   1671  CE   LYS A 326      202.635 155.634   0.108  1.00 36.99      A    C
ATOM   1672  NZ   LYS A 326      204.059 155.235  -0.146  1.00 40.73      A    N
ATOM   1673  C    LYS A 326      198.627 158.927   1.496  1.00 18.10      A    C
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ATOM	1674	O	LYS A 326	198.050	158.173	0.745	1.00	18.75	A	O
ATOM	1675	N	PRO A 327	198.657	160.254	1.290	1.00	19.06	A	N
ATOM	1676	CD	PRO A 327	199.416	161.265	2.050	1.00	18.18	A	C
ATOM	1677	CA	PRO A 327	198.046	160.877	0.111	1.00	16.77	A	C
ATOM	1678	CB	PRO A 327	198.349	162.358	0.331	1.00	18.27	A	C
ATOM	1679	CG	PRO A 327	199.652	162.318	0.997	1.00	17.79	A	C
ATOM	1680	C	PRO A 327	198.719	160.334	-1.156	1.00	15.47	A	C
ATOM	1681	O	PRO A 327	199.920	160.074	-1.165	1.00	17.98	A	O
ATOM	1682	N	PRO A 328	197.967	160.221	-2.256	1.00	15.81	A	N
ATOM	1683	CD	PRO A 328	196.629	160.830	-2.419	1.00	13.52	A	C
ATOM	1684	CA	PRO A 328	198.467	159.699	-3.540	1.00	13.75	A	C
ATOM	1685	CB	PRO A 328	197.183	159.511	-4.345	1.00	15.58	A	C
ATOM	1686	CG	PRO A 328	196.384	160.712	-3.922	1.00	15.99	A	C
ATOM	1687	C	PRO A 328	199.517	160.502	-4.312	1.00	14.29	A	C
ATOM	1688	O	PRO A 328	200.226	159.947	-5.150	1.00	15.51	A	O
ATOM	1689	N	PHE A 329	199.627	161.798	-4.039	1.00	15.34	A	N
ATOM	1690	CA	PHE A 329	200.600	162.627	-4.758	1.00	16.02	A	C
ATOM	1691	CB	PHE A 329	199.880	163.832	-5.357	1.00	11.57	A	C
ATOM	1692	CG	PHE A 329	198.677	163.456	-6.171	1.00	10.41	A	C
ATOM	1693	CD1	PHE A 329	198.831	162.822	-7.393	1.00	7.22	A	C
ATOM	1694	CD2	PHE A 329	197.389	163.646	-5.672	1.00	10.88	A	C
ATOM	1695	CE1	PHE A 329	197.722	162.365	-8.117	1.00	11.91	A	C
ATOM	1696	CE2	PHE A 329	196.267	163.194	-6.387	1.00	9.29	A	C
ATOM	1697	CZ	PHE A 329	196.435	162.548	-7.611	1.00	11.49	A	C
ATOM	1698	C	PHE A 329	201.774	163.073	-3.896	1.00	18.50	A	C
ATOM	1699	O	PHE A 329	202.501	163.999	-4.242	1.00	17.82	A	O
ATOM	1700	N	GLU A 330	201.968	162.411	-2.765	1.00	20.96	A	N
ATOM	1701	CA	GLU A 330	203.061	162.781	-1.872	1.00	25.68	A	C
ATOM	1702	CB	GLU A 330	203.042	161.868	-0.653	1.00	28.63	A	C
ATOM	1703	CG	GLU A 330	203.889	162.292	0.527	1.00	35.48	A	C
ATOM	1704	CD	GLU A 330	203.618	161.381	1.725	1.00	40.14	A	C
ATOM	1705	OE1	GLU A 330	203.825	161.798	2.890	1.00	43.93	A	O
ATOM	1706	OE2	GLU A 330	203.186	160.230	1.490	1.00	43.19	A	O
ATOM	1707	C	GLU A 330	204.404	162.666	-2.593	1.00	25.36	A	C
ATOM	1708	O	GLU A 330	204.712	161.627	-3.177	1.00	25.32	A	O
ATOM	1709	N	ALA A 331	205.195	163.733	-2.551	1.00	23.31	A	N
ATOM	1710	CA	ALA A 331	206.506	163.745	-3.184	1.00	23.23	A	C
ATOM	1711	CB	ALA A 331	206.432	164.479	-4.500	1.00	19.73	A	C
ATOM	1712	C	ALA A 331	207.503	164.429	-2.239	1.00	24.76	A	C
ATOM	1713	O	ALA A 331	207.109	165.040	-1.249	1.00	22.52	A	O
ATOM	1714	N	ASN A 332	208.794	164.320	-2.542	1.00	27.89	A	N
ATOM	1715	CA	ASN A 332	209.822	164.922	-1.692	1.00	30.47	A	C
ATOM	1716	CB	ASN A 332	211.174	164.246	-1.975	1.00	32.87	A	C
ATOM	1717	CG	ASN A 332	211.190	162.794	-1.504	1.00	37.45	A	C
ATOM	1718	OD1	ASN A 332	210.716	162.504	-0.401	1.00	36.73	A	O
ATOM	1719	ND2	ASN A 332	211.729	161.883	-2.321	1.00	37.38	A	N
ATOM	1720	C	ASN A 332	209.942	166.462	-1.771	1.00	29.91	A	C
ATOM	1721	O	ASN A 332	210.601	167.073	-0.928	1.00	29.72	A	O
ATOM	1722	N	THR A 333	209.303	167.092	-2.754	1.00	27.34	A	N
ATOM	1723	CA	THR A 333	209.369	168.544	-2.881	1.00	25.63	A	C
ATOM	1724	CB	THR A 333	210.411	168.968	-3.919	1.00	27.29	A	C
ATOM	1725	OG1	THR A 333	209.862	168.766	-5.232	1.00	25.31	A	O
ATOM	1726	CG2	THR A 333	211.683	168.122	-3.769	1.00	28.40	A	C
ATOM	1727	C	THR A 333	208.021	169.099	-3.341	1.00	24.25	A	C
ATOM	1728	O	THR A 333	207.168	168.355	-3.832	1.00	24.65	A	O
ATOM	1729	N	TYR A 334	207.839	170.406	-3.177	1.00	22.97	A	N
ATOM	1730	CA	TYR A 334	206.610	171.081	-3.584	1.00	24.27	A	C
ATOM	1731	CB	TYR A 334	206.670	172.557	-3.243	1.00	26.40	A	C
ATOM	1732	CG	TYR A 334	206.122	172.899	-1.885	1.00	28.73	A	C
ATOM	1733	CD1	TYR A 334	206.846	172.639	-0.725	1.00	29.53	A	C
ATOM	1734	CE1	TYR A 334	206.322	172.945	0.537	1.00	32.11	A	C
ATOM	1735	CD2	TYR A 334	204.863	173.476	-1.759	1.00	28.50	A	C
ATOM	1736	CE2	TYR A 334	204.329	173.794	-0.497	1.00	29.43	A	C
ATOM	1737	CZ	TYR A 334	205.072	173.518	0.645	1.00	31.88	A	C
ATOM	1738	OH	TYR A 334	204.597	173.783	1.910	1.00	34.80	A	O
ATOM	1739	C	TYR A 334	206.379	170.979	-5.088	1.00	25.01	A	C
ATOM	1740	O	TYR A 334	205.267	170.712	-5.567	1.00	24.09	A	O
ATOM	1741	N	GLN A 335	207.445	171.221	-5.831	1.00	24.15	A	N
ATOM	1742	CA	GLN A 335	207.401	171.183	-7.272	1.00	26.26	A	C
ATOM	1743	CB	GLN A 335	208.763	171.616	-7.820	1.00	30.16	A	C

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ATOM   1744  CG   GLN A 335    208.690 172.407  -9.123  1.00 37.20      A    C
ATOM   1745  CD   GLN A 335    209.938 173.249  -9.353  1.00 44.29      A    C
ATOM   1746  OE1  GLN A 335    211.075 172.716  -9.361  1.00 45.86      A    O
ATOM   1747  NE2  GLN A 335    209.749 174.581  -9.540  1.00 45.65      A    N
ATOM   1748  C    GLN A 335    207.014 169.785  -7.766  1.00 24.06      A    C
ATOM   1749  O    GLN A 335    206.182 169.643  -8.661  1.00 20.60      A    O
ATOM   1750  N    GLU A 336    207.596 168.746  -7.179  1.00 23.21      A    N
ATOM   1751  CA   GLU A 336    207.243 167.407  -7.624  1.00 22.61      A    C
ATOM   1752  CB   GLU A 336    208.183 166.360  -7.022  1.00 19.74      A    C
ATOM   1753  CG   GLU A 336    207.807 164.932  -7.350  1.00 27.97      A    C
ATOM   1754  CD   GLU A 336    207.852 164.603  -8.845  1.00 35.28      A    C
ATOM   1755  OE1  GLU A 336    207.231 163.579  -9.236  1.00 38.15      A    O
ATOM   1756  OE2  GLU A 336    208.508 165.350  -9.628  1.00 39.74      A    O
ATOM   1757  C    GLU A 336    205.775 167.056  -7.327  1.00 23.14      A    C
ATOM   1758  O    GLU A 336    205.138 166.363  -8.124  1.00 23.03      A    O
ATOM   1759  N    THR A 337    205.241 167.517  -6.196  1.00 21.09      A    N
ATOM   1760  CA   THR A 337    203.849 167.229  -5.868  1.00 21.21      A    C
ATOM   1761  CB   THR A 337    203.541 167.589  -4.380  1.00 22.66      A    C
ATOM   1762  OG1  THR A 337    204.334 166.744  -3.537  1.00 24.71      A    O
ATOM   1763  CG2  THR A 337    202.072 167.366  -4.030  1.00 16.15      A    C
ATOM   1764  C    THR A 337    202.918 167.944  -6.855  1.00 19.71      A    C
ATOM   1765  O    THR A 337    201.978 167.329  -7.346  1.00 21.88      A    O
ATOM   1766  N    TYR A 338    203.191 169.210  -7.171  1.00 17.76      A    N
ATOM   1767  CA   TYR A 338    202.404 169.982  -8.151  1.00 17.94      A    C
ATOM   1768  CB   TYR A 338    203.051 171.348  -8.416  1.00 19.72      A    C
ATOM   1769  CG   TYR A 338    202.924 172.309  -7.282  1.00 21.47      A    C
ATOM   1770  CD1  TYR A 338    203.927 173.231  -7.014  1.00 26.12      A    C
ATOM   1771  CE1  TYR A 338    203.780 174.172  -6.003  1.00 31.99      A    C
ATOM   1772  CD2  TYR A 338    201.775 172.333  -6.506  1.00 23.72      A    C
ATOM   1773  CE2  TYR A 338    201.609 173.256  -5.498  1.00 28.25      A    C
ATOM   1774  CZ   TYR A 338    202.605 174.184  -5.255  1.00 32.26      A    C
ATOM   1775  OH   TYR A 338    202.398 175.197  -4.343  1.00 37.49      A    O
ATOM   1776  C    TYR A 338    202.342 169.248  -9.480  1.00 17.24      A    C
ATOM   1777  O    TYR A 338    201.303 169.202 -10.143  1.00 17.93      A    O
ATOM   1778  N    LYS A 339    203.492 168.704  -9.869  1.00 18.06      A    N
ATOM   1779  CA   LYS A 339    203.635 167.967 -11.112  1.00 15.13      A    C
ATOM   1780  CB   LYS A 339    205.087 167.521 -11.318  1.00 15.66      A    C
ATOM   1781  CG   LYS A 339    205.282 166.761 -12.647  1.00 25.11      A    C
ATOM   1782  CD   LYS A 339    206.675 166.164 -12.838  1.00 28.61      A    C
ATOM   1783  CE   LYS A 339    207.736 167.232 -12.973  1.00 30.48      A    C
ATOM   1784  NZ   LYS A 339    209.081 166.590 -13.128  1.00 37.06      A    N
ATOM   1785  C    LYS A 339    202.734 166.747 -11.110  1.00 15.66      A    C
ATOM   1786  O    LYS A 339    201.999 166.520 -12.062  1.00 16.79      A    O
ATOM   1787  N    ARG A 340    202.788 165.963 -10.038  1.00 14.01      A    N
ATOM   1788  CA   ARG A 340    201.980 164.754  -9.941  1.00 17.25      A    C
ATOM   1789  CB   ARG A 340    202.444 163.917  -8.749  1.00 17.92      A    C
ATOM   1790  CG   ARG A 340    203.675 163.112  -9.058  1.00 20.94      A    C
ATOM   1791  CD   ARG A 340    204.273 162.632  -7.805  1.00 26.11      A    C
ATOM   1792  NE   ARG A 340    205.579 162.024  -8.000  1.00 30.74      A    N
ATOM   1793  CZ   ARG A 340    206.247 161.430  -7.014  1.00 34.14      A    C
ATOM   1794  NH1  ARG A 340    205.697 161.387  -5.805  1.00 36.45      A    N
ATOM   1795  NH2  ARG A 340    207.447 160.886  -7.219  1.00 32.82      A    N
ATOM   1796  C    ARG A 340    200.467 164.980  -9.876  1.00 16.32      A    C
ATOM   1797  O    ARG A 340    199.692 164.177 -10.393  1.00 13.54      A    O
ATOM   1798  N    ILE A 341    200.052 166.068  -9.242  1.00 16.44      A    N
ATOM   1799  CA   ILE A 341    198.637 166.396  -9.147  1.00 15.90      A    C
ATOM   1800  CB   ILE A 341    198.425 167.544  -8.133  1.00 14.61      A    C
ATOM   1801  CG2  ILE A 341    197.031 168.173  -8.284  1.00 10.21      A    C
ATOM   1802  CG1  ILE A 341    198.636 166.991  -6.722  1.00  9.86      A    C
ATOM   1803  CD1  ILE A 341    198.865 168.066  -5.710  1.00 10.30      A    C
ATOM   1804  C    ILE A 341    198.139 166.813 -10.524  1.00 16.94      A    C
ATOM   1805  O    ILE A 341    197.099 166.346 -11.003  1.00 15.49      A    O
ATOM   1806  N    SER A 342    198.911 167.677 -11.165  1.00 17.49      A    N
ATOM   1807  CA   SER A 342    198.556 168.185 -12.479  1.00 19.50      A    C
ATOM   1808  CB   SER A 342    199.638 169.153 -12.927  1.00 19.12      A    C
ATOM   1809  OG   SER A 342    199.178 169.899 -14.023  1.00 28.84      A    O
ATOM   1810  C    SER A 342    198.385 167.065 -13.518  1.00 18.65      A    C
ATOM   1811  O    SER A 342    197.544 167.157 -14.414  1.00 17.15      A    O
ATOM   1812  N    ARG A 343    199.209 166.027 -13.391  1.00 16.76      A    N
ATOM   1813  CA   ARG A 343    199.187 164.881 -14.291  1.00 16.82      A    C
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ATOM   1814  CB  ARG A 343    200.563 164.214 -14.356  1.00 19.40      A    C
ATOM   1815  CG  ARG A 343    201.744 165.034 -14.873  1.00 20.85      A    C
ATOM   1816  CD  ARG A 343    202.986 164.139 -14.768  1.00 22.63      A    C
ATOM   1817  NE  ARG A 343    204.181 164.667 -15.420  1.00 29.67      A    N
ATOM   1818  CZ  ARG A 343    205.296 163.964 -15.619  1.00 29.30      A    C
ATOM   1819  NH1 ARG A 343    205.362 162.702 -15.211  1.00 27.60      A    N
ATOM   1820  NH2 ARG A 343    206.337 164.521 -16.239  1.00 30.90      A    N
ATOM   1821  C   ARG A 343    198.213 163.833 -13.749  1.00 17.95      A    C
ATOM   1822  O   ARG A 343    197.789 162.927 -14.470  1.00 18.61      A    O
ATOM   1823  N   VAL A 344    197.880 163.963 -12.465  1.00 16.47      A    N
ATOM   1824  CA  VAL A 344    197.014 163.027 -11.767  1.00 15.15      A    C
ATOM   1825  CB  VAL A 344    195.644 162.882 -12.427  1.00 14.04      A    C
ATOM   1826  CG1 VAL A 344    194.791 161.919 -11.603  1.00 14.73      A    C
ATOM   1827  CG2 VAL A 344    194.949 164.217 -12.503  1.00 14.41      A    C
ATOM   1828  C   VAL A 344    197.751 161.702 -11.847  1.00 19.48      A    C
ATOM   1829  O   VAL A 344    197.240 160.697 -12.362  1.00 17.59      A    O
ATOM   1830  N   GLU A 345    198.970 161.733 -11.320  1.00 20.63      A    N
ATOM   1831  CA  GLU A 345    199.883 160.600 -11.314  1.00 21.68      A    C
ATOM   1832  CB  GLU A 345    201.297 161.116 -11.635  1.00 22.57      A    C
ATOM   1833  CG  GLU A 345    202.291 160.066 -12.115  1.00 29.02      A    C
ATOM   1834  CD  GLU A 345    203.609 160.693 -12.596  1.00 34.43      A    C
ATOM   1835  OE1 GLU A 345    203.572 161.826 -13.143  1.00 41.54      A    O
ATOM   1836  OE2 GLU A 345    204.677 160.062 -12.448  1.00 34.88      A    O
ATOM   1837  C   GLU A 345    199.906 159.839  -9.990  1.00 21.02      A    C
ATOM   1838  O   GLU A 345    200.516 160.289  -9.009  1.00 22.86      A    O
ATOM   1839  N   PHE A 346    199.260 158.679  -9.953  1.00 20.71      A    N
ATOM   1840  CA  PHE A 346    199.268 157.868  -8.730  1.00 20.54      A    C
ATOM   1841  CB  PHE A 346    198.272 158.454  -7.705  1.00 19.53      A    C
ATOM   1842  CG  PHE A 346    196.835 158.138  -8.013  1.00 21.11      A    C
ATOM   1843  CD1 PHE A 346    196.203 157.064  -7.403  1.00 22.02      A    C
ATOM   1844  CD2 PHE A 346    196.130 158.888  -8.936  1.00 18.36      A    C
ATOM   1845  CE1 PHE A 346    194.878 156.744  -7.713  1.00 24.10      A    C
ATOM   1846  CE2 PHE A 346    194.807 158.574  -9.253  1.00 23.07      A    C
ATOM   1847  CZ  PHE A 346    194.181 157.500  -8.640  1.00 22.64      A    C
ATOM   1848  C   PHE A 346    198.893 156.424  -9.065  1.00 19.41      A    C
ATOM   1849  O   PHE A 346    198.376 156.142 -10.153  1.00 21.26      A    O
ATOM   1850  N   THR A 347    199.158 155.512  -8.137  1.00 17.51      A    N
ATOM   1851  CA  THR A 347    198.809 154.113  -8.335  1.00 15.60      A    C
ATOM   1852  CB  THR A 347    200.042 153.259  -8.736  1.00 17.00      A    C
ATOM   1853  OG1 THR A 347    201.113 153.494  -7.812  1.00 20.54      A    O
ATOM   1854  CG2 THR A 347    200.506 153.617 -10.145  1.00 14.88      A    C
ATOM   1855  C   THR A 347    198.245 153.623  -7.026  1.00 14.01      A    C
ATOM   1856  O   THR A 347    198.322 154.324  -6.030  1.00 14.17      A    O
ATOM   1857  N   PHE A 348    197.659 152.434  -7.029  1.00 14.30      A    N
ATOM   1858  CA  PHE A 348    197.097 151.875  -5.809  1.00 15.62      A    C
ATOM   1859  CB  PHE A 348    195.673 151.335  -6.022  1.00 13.71      A    C
ATOM   1860  CG  PHE A 348    194.678 152.345  -6.553  1.00 14.90      A    C
ATOM   1861  CD1 PHE A 348    194.476 152.496  -7.926  1.00 14.48      A    C
ATOM   1862  CD2 PHE A 348    193.915 153.115  -5.678  1.00 14.25      A    C
ATOM   1863  CE1 PHE A 348    193.520 153.399  -8.421  1.00 13.33      A    C
ATOM   1864  CE2 PHE A 348    192.956 154.020  -6.160  1.00 12.61      A    C
ATOM   1865  CZ  PHE A 348    192.758 154.162  -7.530  1.00 13.12      A    C
ATOM   1866  C   PHE A 348    197.936 150.690  -5.379  1.00 17.39      A    C
ATOM   1867  O   PHE A 348    198.493 149.986  -6.222  1.00 17.79      A    O
ATOM   1868  N   PRO A 349    198.077 150.478  -4.060  1.00 19.22      A    N
ATOM   1869  CD  PRO A 349    197.716 151.428  -2.984  1.00 20.64      A    C
ATOM   1870  CA  PRO A 349    198.843 149.326  -3.550  1.00 18.28      A    C
ATOM   1871  CB  PRO A 349    198.881 149.550  -2.034  1.00 19.47      A    C
ATOM   1872  CG  PRO A 349    198.663 151.042  -1.874  1.00 21.78      A    C
ATOM   1873  C   PRO A 349    197.913 148.144  -3.906  1.00 18.89      A    C
ATOM   1874  O   PRO A 349    196.765 148.365  -4.282  1.00 18.06      A    O
ATOM   1875  N   ASP A 350    198.360 146.901  -3.778  1.00 22.60      A    N
ATOM   1876  CA  ASP A 350    197.488 145.780  -4.137  1.00 24.29      A    C
ATOM   1877  CB  ASP A 350    198.312 144.494  -4.298  1.00 28.79      A    C
ATOM   1878  CG  ASP A 350    199.378 144.608  -5.404  1.00 33.91      A    C
ATOM   1879  OD1 ASP A 350    200.001 143.575  -5.741  1.00 33.53      A    O
ATOM   1880  OD2 ASP A 350    199.591 145.733  -5.928  1.00 35.29      A    O
ATOM   1881  C   ASP A 350    196.293 145.489  -3.238  1.00 23.99      A    C
ATOM   1882  O   ASP A 350    195.352 144.835  -3.671  1.00 23.48      A    O
ATOM   1883  N   PHE A 351    196.279 145.964  -2.003  1.00 22.20      A    N
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ATOM   1884  CA   PHE A 351    195.125 145.636  -1.171  1.00 23.75      A    C
ATOM   1885  CB   PHE A 351    195.510 145.662   0.300  1.00 22.72      A    C
ATOM   1886  CG   PHE A 351    196.082 146.956   0.738  1.00 20.40      A    C
ATOM   1887  CD1  PHE A 351    197.451 147.151   0.756  1.00 17.28      A    C
ATOM   1888  CD2  PHE A 351    195.245 147.994   1.111  1.00 19.08      A    C
ATOM   1889  CE1  PHE A 351    197.983 148.379   1.142  1.00 21.72      A    C
ATOM   1890  CE2  PHE A 351    195.761 149.217   1.497  1.00 19.31      A    C
ATOM   1891  CZ   PHE A 351    197.128 149.417   1.515  1.00 20.15      A    C
ATOM   1892  C    PHE A 351    193.883 146.509  -1.382  1.00 24.86      A    C
ATOM   1893  O    PHE A 351    192.826 146.215  -0.820  1.00 26.36      A    O
ATOM   1894  N    VAL A 352    193.999 147.575  -2.174  1.00 22.98      A    N
ATOM   1895  CA   VAL A 352    192.845 148.431  -2.428  1.00 22.53      A    C
ATOM   1896  CB   VAL A 352    193.297 149.810  -2.976  1.00 19.91      A    C
ATOM   1897  CG1  VAL A 352    192.105 150.680  -3.293  1.00 15.94      A    C
ATOM   1898  CG2  VAL A 352    194.164 150.489  -1.936  1.00 17.58      A    C
ATOM   1899  C    VAL A 352    191.941 147.702  -3.416  1.00 22.85      A    C
ATOM   1900  O    VAL A 352    192.351 147.406  -4.541  1.00 25.56      A    O
ATOM   1901  N    THR A 353    190.722 147.393  -2.985  1.00 20.20      A    N
ATOM   1902  CA   THR A 353    189.786 146.668  -3.833  1.00 20.47      A    C
ATOM   1903  CB   THR A 353    188.530 146.264  -3.059  1.00 18.44      A    C
ATOM   1904  OG1  THR A 353    187.777 147.445  -2.740  1.00 19.14      A    O
ATOM   1905  CG2  THR A 353    188.915 145.544  -1.786  1.00 15.00      A    C
ATOM   1906  C    THR A 353    189.331 147.452  -5.049  1.00 23.02      A    C
ATOM   1907  O    THR A 353    189.525 148.665  -5.144  1.00 21.93      A    O
ATOM   1908  N    GLU A 354    188.685 146.733  -5.960  1.00 23.98      A    N
ATOM   1909  CA   GLU A 354    188.175 147.274  -7.208  1.00 25.43      A    C
ATOM   1910  CB   GLU A 354    187.543 146.130  -8.001  1.00 30.21      A    C
ATOM   1911  CG   GLU A 354    186.780 146.540  -9.261  1.00 37.82      A    C
ATOM   1912  CD   GLU A 354    186.031 145.351  -9.890  1.00 41.79      A    C
ATOM   1913  OE1  GLU A 354    185.501 145.472 -11.025  1.00 43.51      A    O
ATOM   1914  OE2  GLU A 354    185.974 144.281  -9.224  1.00 44.80      A    O
ATOM   1915  C    GLU A 354    187.175 148.424  -7.055  1.00 24.34      A    C
ATOM   1916  O    GLU A 354    187.182 149.386  -7.840  1.00 24.85      A    O
ATOM   1917  N    GLY A 355    186.298 148.303  -6.065  1.00 20.96      A    N
ATOM   1918  CA   GLY A 355    185.289 149.314  -5.842  1.00 13.82      A    C
ATOM   1919  C    GLY A 355    185.908 150.595  -5.333  1.00 16.94      A    C
ATOM   1920  O    GLY A 355    185.529 151.694  -5.760  1.00 13.60      A    O
ATOM   1921  N    ALA A 356    186.868 150.473  -4.425  1.00 15.45      A    N
ATOM   1922  CA   ALA A 356    187.501 151.674  -3.909  1.00 19.10      A    C
ATOM   1923  CB   ALA A 356    188.475 151.326  -2.761  1.00 18.64      A    C
ATOM   1924  C    ALA A 356    188.235 152.381  -5.068  1.00 19.08      A    C
ATOM   1925  O    ALA A 356    188.203 153.604  -5.162  1.00 16.84      A    O
ATOM   1926  N    ARG A 357    188.874 151.611  -5.951  1.00 18.44      A    N
ATOM   1927  CA   ARG A 357    189.586 152.184  -7.100  1.00 18.13      A    C
ATOM   1928  CB   ARG A 357    190.349 151.113  -7.881  1.00 16.00      A    C
ATOM   1929  CG   ARG A 357    191.447 150.447  -7.112  1.00 15.75      A    C
ATOM   1930  CD   ARG A 357    192.125 149.414  -7.941  1.00 14.24      A    C
ATOM   1931  NE   ARG A 357    193.120 148.721  -7.139  1.00 18.00      A    N
ATOM   1932  CZ   ARG A 357    194.249 148.203  -7.607  1.00 18.74      A    C
ATOM   1933  NH1  ARG A 357    194.553 148.285  -8.898  1.00 21.62      A    N
ATOM   1934  NH2  ARG A 357    195.097 147.622  -6.768  1.00 20.49      A    N
ATOM   1935  C    ARG A 357    188.627 152.856  -8.062  1.00 17.28      A    C
ATOM   1936  O    ARG A 357    188.949 153.878  -8.637  1.00 16.53      A    O
ATOM   1937  N    ASP A 358    187.454 152.272  -8.261  1.00 17.73      A    N
ATOM   1938  CA   ASP A 358    186.511 152.887  -9.176  1.00 17.93      A    C
ATOM   1939  CB   ASP A 358    185.267 152.024  -9.389  1.00 21.16      A    C
ATOM   1940  CG   ASP A 358    184.269 152.688 -10.327  1.00 23.93      A    C
ATOM   1941  OD1  ASP A 358    184.508 152.671 -11.559  1.00 29.93      A    O
ATOM   1942  OD2  ASP A 358    183.266 153.257  -9.840  1.00 22.82      A    O
ATOM   1943  C    ASP A 358    186.081 154.234  -8.611  1.00 17.83      A    C
ATOM   1944  O    ASP A 358    185.996 155.206  -9.348  1.00 20.18      A    O
ATOM   1945  N    LEU A 359    185.823 154.299  -7.303  1.00 16.69      A    N
ATOM   1946  CA   LEU A 359    185.389 155.543  -6.680  1.00 15.23      A    C
ATOM   1947  CB   LEU A 359    184.873 155.292  -5.250  1.00 13.90      A    C
ATOM   1948  CG   LEU A 359    184.459 156.568  -4.482  1.00 15.76      A    C
ATOM   1949  CD1  LEU A 359    183.222 157.164  -5.105  1.00 14.16      A    C
ATOM   1950  CD2  LEU A 359    184.210 156.266  -3.027  1.00 16.19      A    C
ATOM   1951  C    LEU A 359    186.478 156.623  -6.646  1.00 15.38      A    C
ATOM   1952  O    LEU A 359    186.234 157.740  -7.071  1.00 16.61      A    O
ATOM   1953  N    ILE A 360    187.661 156.300  -6.132  1.00 15.08      A    N
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ATOM   1954  CA   ILE A 360    188.737 157.280  -6.054  1.00 16.09     A    C
ATOM   1955  CB   ILE A 360    189.972 156.694  -5.305  1.00 13.18     A    C
ATOM   1956  CG2  ILE A 360    191.132 157.645  -5.348  1.00  8.95     A    C
ATOM   1957  CG1  ILE A 360    189.613 156.445  -3.843  1.00 11.43     A    C
ATOM   1958  CD1  ILE A 360    190.486 155.406  -3.211  1.00 15.13     A    C
ATOM   1959  C    ILE A 360    189.126 157.752  -7.457  1.00 18.67     A    C
ATOM   1960  O    ILE A 360    189.433 158.935  -7.652  1.00 19.76     A    O
ATOM   1961  N    SER A 361    189.099 156.841  -8.427  1.00 17.86     A    N
ATOM   1962  CA   SER A 361    189.437 157.193  -9.792  1.00 17.51     A    C
ATOM   1963  CB   SER A 361    189.511 155.952 -10.682  1.00 18.17     A    C
ATOM   1964  OG   SER A 361    190.686 155.223 -10.384  1.00 20.30     A    O
ATOM   1965  C    SER A 361    188.438 158.163 -10.382  1.00 18.63     A    C
ATOM   1966  O    SER A 361    188.805 159.011 -11.209  1.00 19.26     A    O
ATOM   1967  N    ARG A 362    187.175 158.051  -9.977  1.00 18.68     A    N
ATOM   1968  CA   ARG A 362    186.156 158.973 -10.492  1.00 17.96     A    C
ATOM   1969  CB   ARG A 362    184.740 158.464 -10.227  1.00 18.15     A    C
ATOM   1970  CG   ARG A 362    184.389 157.189 -10.948  1.00 21.87     A    C
ATOM   1971  CD   ARG A 362    182.950 156.762 -10.710  1.00 24.92     A    C
ATOM   1972  NE   ARG A 362    182.669 155.532 -11.449  1.00 31.73     A    N
ATOM   1973  CZ   ARG A 362    182.150 155.461 -12.682  1.00 35.25     A    C
ATOM   1974  NH1  ARG A 362    181.805 156.557 -13.358  1.00 34.91     A    N
ATOM   1975  NH2  ARG A 362    182.052 154.276 -13.281  1.00 35.12     A    N
ATOM   1976  C    ARG A 362    186.287 160.332  -9.817  1.00 16.66     A    C
ATOM   1977  O    ARG A 362    186.086 161.367 -10.452  1.00 21.59     A    O
ATOM   1978  N    LEU A 363    186.602 160.348  -8.527  1.00 15.31     A    N
ATOM   1979  CA   LEU A 363    186.726 161.620  -7.814  1.00 15.39     A    C
ATOM   1980  CB   LEU A 363    186.758 161.376  -6.295  1.00 13.54     A    C
ATOM   1981  CG   LEU A 363    185.452 160.880  -5.638  1.00 14.63     A    C
ATOM   1982  CD1  LEU A 363    185.723 160.358  -4.216  1.00 12.73     A    C
ATOM   1983  CD2  LEU A 363    184.423 162.005  -5.613  1.00  7.80     A    C
ATOM   1984  C    LEU A 363    187.989 162.357  -8.252  1.00 16.50     A    C
ATOM   1985  O    LEU A 363    188.033 163.593  -8.252  1.00 16.60     A    O
ATOM   1986  N    LEU A 364    189.008 161.597  -8.656  1.00 17.23     A    N
ATOM   1987  CA   LEU A 364    190.285 162.182  -9.051  1.00 20.15     A    C
ATOM   1988  CB   LEU A 364    191.419 161.335  -8.467  1.00 18.29     A    C
ATOM   1989  CG   LEU A 364    191.504 161.377  -6.926  1.00 20.11     A    C
ATOM   1990  CD1  LEU A 364    192.737 160.607  -6.509  1.00 16.10     A    C
ATOM   1991  CD2  LEU A 364    191.576 162.820  -6.413  1.00 16.30     A    C
ATOM   1992  C    LEU A 364    190.474 162.393 -10.557  1.00 19.92     A    C
ATOM   1993  O    LEU A 364    191.511 162.052 -11.143  1.00 20.12     A    O
ATOM   1994  N    LYS A 365    189.450 162.967 -11.169  1.00 19.36     A    N
ATOM   1995  CA   LYS A 365    189.461 163.275 -12.581  1.00 19.00     A    C
ATOM   1996  CB   LYS A 365    188.039 163.289 -13.117  1.00 22.47     A    C
ATOM   1997  CG   LYS A 365    187.417 161.929 -13.243  1.00 23.42     A    C
ATOM   1998  CD   LYS A 365    188.039 161.224 -14.400  1.00 23.31     A    C
ATOM   1999  CE   LYS A 365    187.320 159.930 -14.693  1.00 24.89     A    C
ATOM   2000  NZ   LYS A 365    187.970 159.249 -15.851  1.00 30.35     A    N
ATOM   2001  C    LYS A 365    190.039 164.670 -12.715  1.00 18.75     A    C
ATOM   2002  O    LYS A 365    189.654 165.568 -11.956  1.00 15.64     A    O
ATOM   2003  N    HIS A 366    190.949 164.850 -13.676  1.00 17.07     A    N
ATOM   2004  CA   HIS A 366    191.568 166.150 -13.920  1.00 17.25     A    C
ATOM   2005  CB   HIS A 366    192.611 166.038 -15.043  1.00 15.66     A    C
ATOM   2006  CG   HIS A 366    193.302 167.331 -15.352  1.00 18.71     A    C
ATOM   2007  CD2  HIS A 366    194.437 167.877 -14.849  1.00 17.17     A    C
ATOM   2008  ND1  HIS A 366    192.763 168.283 -16.194  1.00 19.79     A    N
ATOM   2009  CE1  HIS A 366    193.530 169.361 -16.187  1.00 18.47     A    C
ATOM   2010  NE2  HIS A 366    194.552 169.141 -15.378  1.00 18.20     A    N
ATOM   2011  C    HIS A 366    190.493 167.186 -14.291  1.00 17.88     A    C
ATOM   2012  O    HIS A 366    190.553 168.334 -13.864  1.00 14.94     A    O
ATOM   2013  N    ASN A 367    189.500 166.769 -15.071  1.00 19.37     A    N
ATOM   2014  CA   ASN A 367    188.436 167.676 -15.490  1.00 22.11     A    C
ATOM   2015  CB   ASN A 367    187.841 167.205 -16.823  1.00 24.11     A    C
ATOM   2016  CG   ASN A 367    186.929 168.246 -17.452  1.00 29.29     A    C
ATOM   2017  OD1  ASN A 367    185.990 168.718 -16.827  1.00 34.30     A    O
ATOM   2018  ND2  ASN A 367    187.209 168.611 -18.688  1.00 31.42     A    N
ATOM   2019  C    ASN A 367    187.348 167.721 -14.412  1.00 22.00     A    C
ATOM   2020  O    ASN A 367    186.644 166.739 -14.198  1.00 21.37     A    O
ATOM   2021  N    PRO A 368    187.174 168.881 -13.751  1.00 22.13     A    N
ATOM   2022  CD   PRO A 368    187.763 170.174 -14.151  1.00 21.11     A    C
ATOM   2023  CA   PRO A 368    186.181 169.073 -12.682  1.00 21.45     A    C
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ATOM   2024  CB  PRO A 368      186.292 170.571 -12.377  1.00 23.08      A  C
ATOM   2025  CG  PRO A 368      187.705 170.942 -12.864  1.00 19.70      A  C
ATOM   2026  C   PRO A 368      184.755 168.638 -13.047  1.00 22.70      A  C
ATOM   2027  O   PRO A 368      184.016 168.091 -12.209  1.00 21.09      A  O
ATOM   2028  N   SER A 369      184.386 168.865 -14.303  1.00 21.10      A  N
ATOM   2029  CA  SER A 369      183.068 168.492 -14.818  1.00 25.15      A  C
ATOM   2030  CB  SER A 369      182.919 168.982 -16.263  1.00 25.61      A  C
ATOM   2031  OG  SER A 369      183.115 170.391 -16.341  1.00 37.93      A  O
ATOM   2032  C   SER A 369      182.809 166.986 -14.785  1.00 23.28      A  C
ATOM   2033  O   SER A 369      181.685 166.555 -14.591  1.00 26.91      A  O
ATOM   2034  N   GLN A 370      183.848 166.196 -14.995  1.00 20.71      A  N
ATOM   2035  CA  GLN A 370      183.744 164.749 -15.009  1.00 21.53      A  C
ATOM   2036  CB  GLN A 370      184.922 164.172 -15.785  1.00 24.23      A  C
ATOM   2037  CG  GLN A 370      184.674 164.178 -17.279  1.00 31.18      A  C
ATOM   2038  CD  GLN A 370      185.948 164.183 -18.045  1.00 38.83      A  C
ATOM   2039  OE1 GLN A 370      186.879 163.380 -17.767  1.00 41.58      A  O
ATOM   2040  NE2 GLN A 370      186.033 165.098 -19.038  1.00 43.83      A  N
ATOM   2041  C   GLN A 370      183.688 164.073 -13.665  1.00 20.69      A  C
ATOM   2042  O   GLN A 370      183.444 162.864 -13.600  1.00 19.42      A  O
ATOM   2043  N   ARG A 371      183.940 164.804 -12.585  1.00 18.88      A  N
ATOM   2044  CA  ARG A 371      183.906 164.189 -11.252  1.00 21.24      A  C
ATOM   2045  CB  ARG A 371      184.612 165.072 -10.231  1.00 17.55      A  C
ATOM   2046  CG  ARG A 371      186.104 165.158 -10.394  1.00 15.36      A  C
ATOM   2047  CD  ARG A 371      186.643 166.286  -9.564  1.00 11.86      A  C
ATOM   2048  NE  ARG A 371      187.913 166.739 -10.108  1.00 12.57      A  N
ATOM   2049  CZ  ARG A 371      188.440 167.951  -9.938  1.00 14.14      A  C
ATOM   2050  NH1 ARG A 371      187.817 168.878  -9.216  1.00 10.91      A  N
ATOM   2051  NH2 ARG A 371      189.583 168.257 -10.545  1.00  9.48      A  N
ATOM   2052  C   ARG A 371      182.440 164.038 -10.854  1.00 22.37      A  C
ATOM   2053  O   ARG A 371      181.601 164.841 -11.176  1.00 22.50      A  O
ATOM   2054  N   PRO A 372      182.141 162.957 -10.111  1.00 23.64      A  N
ATOM   2055  CD  PRO A 372      183.165 162.051  -9.512  1.00 23.75      A  C
ATOM   2056  CA  PRO A 372      180.757 162.663  -9.653  1.00 21.80      A  C
ATOM   2057  CB  PRO A 372      180.923 161.269  -9.007  1.00 22.29      A  C
ATOM   2058  CG  PRO A 372      182.365 161.227  -8.548  1.00 22.92      A  C
ATOM   2059  C   PRO A 372      180.160 163.726  -8.739  1.00 21.72      A  C
ATOM   2060  O   PRO A 372      180.875 164.579  -8.217  1.00 23.11      A  O
ATOM   2061  N   MET A 373      178.840 163.740  -8.654  1.00 20.67      A  N
ATOM   2062  CA  MET A 373      178.153 164.668  -7.731  1.00 19.68      A  C
ATOM   2063  CB  MET A 373      176.674 164.841  -8.137  1.00 25.32      A  C
ATOM   2064  CG  MET A 373      176.470 165.598  -9.397  1.00 29.58      A  C
ATOM   2065  SD  MET A 373      177.274 167.224  -9.216  1.00 44.08      A  S
ATOM   2066  CE  MET A 373      175.850 168.314  -8.571  1.00 34.35      A  C
ATOM   2067  C   MET A 373      178.231 163.942  -6.368  1.00 18.77      A  C
ATOM   2068  O   MET A 373      178.518 162.750  -6.337  1.00 14.31      A  O
ATOM   2069  N   LEU A 374      177.985 164.639  -5.257  1.00 16.82      A  N
ATOM   2070  CA  LEU A 374      178.041 163.984  -3.959  1.00 17.05      A  C
ATOM   2071  CB  LEU A 374      177.959 165.010  -2.820  1.00 15.61      A  C
ATOM   2072  CG  LEU A 374      179.224 165.888  -2.751  1.00 17.98      A  C
ATOM   2073  CD1 LEU A 374      178.940 167.269  -2.145  1.00  8.94      A  C
ATOM   2074  CD2 LEU A 374      180.290 165.125  -1.973  1.00 12.26      A  C
ATOM   2075  C   LEU A 374      176.934 162.915  -3.837  1.00 18.65      A  C
ATOM   2076  O   LEU A 374      177.122 161.885  -3.201  1.00 19.21      A  O
ATOM   2077  N   ARG A 375      175.804 163.167  -4.504  1.00 18.78      A  N
ATOM   2078  CA  ARG A 375      174.657 162.248  -4.510  1.00 20.13      A  C
ATOM   2079  CB  ARG A 375      173.504 162.813  -5.210  1.00 21.87      A  C
ATOM   2080  C   ARG A 375      175.033 160.942  -5.178  1.00 21.00      A  C
ATOM   2081  O   ARG A 375      174.457 159.916  -4.909  1.00 21.05      A  O
ATOM   2082  N   GLU A 376      175.970 161.009  -6.106  1.00 23.11      A  N
ATOM   2083  CA  GLU A 376      176.419 159.788  -6.763  1.00 23.55      A  C
ATOM   2084  CB  GLU A 376      177.142 160.139  -8.053  1.00 24.82      A  C
ATOM   2085  CG  GLU A 376      176.400 161.110  -8.977  1.00 32.25      A  C
ATOM   2086  CD  GLU A 376      177.239 161.561 -10.206  1.00 34.95      A  C
ATOM   2087  OE1 GLU A 376      177.030 162.670 -10.770  1.00 37.06      A  O
ATOM   2088  OE2 GLU A 376      178.110 160.783 -10.630  1.00 37.87      A  O
ATOM   2089  C   GLU A 376      177.380 158.962  -5.852  1.00 23.36      A  C
ATOM   2090  O   GLU A 376      177.448 157.712  -5.874  1.00 25.32      A  O
ATOM   2091  N   VAL A 377      178.204 159.683  -5.113  1.00 20.65      A  N
ATOM   2092  CA  VAL A 377      179.168 159.065  -4.241  1.00 19.06      A  C
ATOM   2093  CB  VAL A 377      180.021 160.117  -3.550  1.00 20.25      A  C
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ATOM   2094  CG1 VAL A 377    180.772 159.513  -2.415  1.00 14.07    A    C
ATOM   2095  CG2 VAL A 377    180.949 160.762  -4.587  1.00 16.78    A    C
ATOM   2096  C   VAL A 377    178.386 158.284  -3.229  1.00 20.23    A    C
ATOM   2097  O   VAL A 377    178.647 157.099  -3.037  1.00 20.59    A    O
ATOM   2098  N   LEU A 378    177.392 158.937  -2.620  1.00 20.07    A    N
ATOM   2099  CA  LEU A 378    176.526 158.314  -1.619  1.00 20.48    A    C
ATOM   2100  CB  LEU A 378    175.514 159.346  -1.107  1.00 19.33    A    C
ATOM   2101  CG  LEU A 378    175.794 160.087   0.237  1.00 25.33    A    C
ATOM   2102  CD1 LEU A 378    177.197 159.794   0.722  1.00 23.60    A    C
ATOM   2103  CD2 LEU A 378    175.575 161.610   0.073  1.00 20.05    A    C
ATOM   2104  C   LEU A 378    175.812 157.030  -2.120  1.00 22.64    A    C
ATOM   2105  O   LEU A 378    175.497 156.130  -1.318  1.00 21.93    A    O
ATOM   2106  N   GLU A 379    175.612 156.930  -3.435  1.00 19.85    A    N
ATOM   2107  CA  GLU A 379    174.972 155.756  -4.020  1.00 24.21    A    C
ATOM   2108  CB  GLU A 379    174.038 156.118  -5.171  1.00 29.18    A    C
ATOM   2109  CG  GLU A 379    173.003 157.140  -4.872  1.00 37.87    A    C
ATOM   2110  CD  GLU A 379    172.172 157.458  -6.104  1.00 44.63    A    C
ATOM   2111  OE1 GLU A 379    172.774 157.586  -7.214  1.00 47.26    A    O
ATOM   2112  OE2 GLU A 379    170.924 157.587  -5.961  1.00 46.30    A    O
ATOM   2113  C   GLU A 379    175.989 154.817  -4.623  1.00 22.35    A    C
ATOM   2114  O   GLU A 379    175.607 153.788  -5.180  1.00 22.07    A    O
ATOM   2115  N   HIS A 380    177.268 155.165  -4.555  1.00 20.53    A    N
ATOM   2116  CA  HIS A 380    178.278 154.301  -5.145  1.00 20.63    A    C
ATOM   2117  CB  HIS A 380    179.683 154.909  -4.995  1.00 15.41    A    C
ATOM   2118  CG  HIS A 380    180.717 154.184  -5.800  1.00 17.05    A    C
ATOM   2119  CD2 HIS A 380    181.309 154.493  -6.982  1.00 16.91    A    C
ATOM   2120  ND1 HIS A 380    181.129 152.901  -5.498  1.00 16.78    A    N
ATOM   2121  CE1 HIS A 380    181.918 152.453  -6.459  1.00 16.66    A    C
ATOM   2122  NE2 HIS A 380    182.042 153.399  -7.372  1.00 15.37    A    N
ATOM   2123  C   HIS A 380    178.209 152.904  -4.509  1.00 20.19    A    C
ATOM   2124  O   HIS A 380    178.129 152.774  -3.293  1.00 21.40    A    O
ATOM   2125  N   PRO A 381    178.231 151.843  -5.333  1.00 21.11    A    N
ATOM   2126  CD  PRO A 381    178.446 151.912  -6.792  1.00 20.62    A    C
ATOM   2127  CA  PRO A 381    178.165 150.440  -4.874  1.00 22.07    A    C
ATOM   2128  CB  PRO A 381    178.512 149.635  -6.139  1.00 23.24    A    C
ATOM   2129  CG  PRO A 381    177.998 150.510  -7.246  1.00 25.34    A    C
ATOM   2130  C   PRO A 381    179.103 150.109  -3.708  1.00 20.71    A    C
ATOM   2131  O   PRO A 381    178.722 149.416  -2.762  1.00 22.12    A    O
ATOM   2132  N   TRP A 382    180.330 150.607  -3.783  1.00 19.08    A    N
ATOM   2133  CA  TRP A 382    181.307 150.367  -2.733  1.00 18.09    A    C
ATOM   2134  CB  TRP A 382    182.667 150.885  -3.160  1.00 16.26    A    C
ATOM   2135  CG  TRP A 382    183.757 150.595  -2.180  1.00 17.75    A    C
ATOM   2136  CD2 TRP A 382    184.370 151.524  -1.271  1.00 17.24    A    C
ATOM   2137  CE2 TRP A 382    185.366 150.816  -0.559  1.00 16.47    A    C
ATOM   2138  CE3 TRP A 382    184.165 152.882  -0.983  1.00 17.55    A    C
ATOM   2139  CD1 TRP A 382    184.389 149.398  -1.986  1.00 14.76    A    C
ATOM   2140  NE1 TRP A 382    185.358 149.524  -1.022  1.00 16.65    A    N
ATOM   2141  CZ2 TRP A 382    186.168 151.422   0.421  1.00 15.85    A    C
ATOM   2142  CZ3 TRP A 382    184.965 153.487  -0.002  1.00 19.06    A    C
ATOM   2143  CH2 TRP A 382    185.951 152.754   0.687  1.00 17.35    A    C
ATOM   2144  C   TRP A 382    180.898 151.042  -1.431  1.00 18.11    A    C
ATOM   2145  O   TRP A 382    181.045 150.467  -0.352  1.00 19.08    A    O
ATOM   2146  N   ILE A 383    180.391 152.266  -1.533  1.00 18.03    A    N
ATOM   2147  CA  ILE A 383    179.963 153.003  -0.354  1.00 17.34    A    C
ATOM   2148  CB  ILE A 383    179.585 154.460  -0.709  1.00 15.70    A    C
ATOM   2149  CG2 ILE A 383    178.985 155.178   0.495  1.00 13.48    A    C
ATOM   2150  CG1 ILE A 383    180.841 155.212  -1.132  1.00  8.79    A    C
ATOM   2151  CD1 ILE A 383    181.809 155.455   0.019  1.00 11.19    A    C
ATOM   2152  C   ILE A 383    178.790 152.312   0.324  1.00 19.72    A    C
ATOM   2153  O   ILE A 383    178.851 152.044   1.523  1.00 21.11    A    O
ATOM   2154  N   THR A 384    177.739 151.994  -0.428  1.00 18.67    A    N
ATOM   2155  CA  THR A 384    176.585 151.336   0.180  1.00 21.04    A    C
ATOM   2156  CB  THR A 384    175.352 151.287  -0.784  1.00 22.27    A    C
ATOM   2157  OG1 THR A 384    175.657 150.457  -1.912  1.00 23.10    A    O
ATOM   2158  CG2 THR A 384    174.969 152.706  -1.271  1.00 15.14    A    C
ATOM   2159  C   THR A 384    176.868 149.921   0.721  1.00 20.77    A    C
ATOM   2160  O   THR A 384    176.220 149.496   1.683  1.00 24.40    A    O
ATOM   2161  N   ALA A 385    177.835 149.206   0.138  1.00 18.85    A    N
ATOM   2162  CA  ALA A 385    178.195 147.848   0.598  1.00 16.58    A    C
ATOM   2163  CB  ALA A 385    178.996 147.119  -0.481  1.00  8.89    A    C
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ATOM	2164	C	ALA	A	385	179.021	147.877	1.890	1.00	19.30	A	C
ATOM	2165	O	ALA	A	385	178.987	146.950	2.699	1.00	17.69	A	O
ATOM	2166	N	ASN	A	386	179.748	148.966	2.104	1.00	23.78	A	N
ATOM	2167	CA	ASN	A	386	180.614	149.059	3.274	1.00	24.44	A	C
ATOM	2168	CB	ASN	A	386	182.039	149.240	2.783	1.00	22.82	A	C
ATOM	2169	CG	ASN	A	386	182.509	148.051	1.997	1.00	22.92	A	C
ATOM	2170	OD1	ASN	A	386	182.581	146.947	2.539	1.00	23.56	A	O
ATOM	2171	ND2	ASN	A	386	182.807	148.251	0.706	1.00	20.68	A	N
ATOM	2172	C	ASN	A	386	180.305	150.133	4.291	1.00	25.32	A	C
ATOM	2173	O	ASN	A	386	180.891	150.175	5.366	1.00	25.70	A	O
ATOM	2174	N	SER	A	387	179.385	151.009	3.950	1.00	28.67	A	N
ATOM	2175	CA	SER	A	387	179.063	152.111	4.823	1.00	30.65	A	C
ATOM	2176	CB	SER	A	387	178.507	153.232	3.955	1.00	29.51	A	C
ATOM	2177	OG	SER	A	387	178.208	154.364	4.724	1.00	35.78	A	O
ATOM	2178	C	SER	A	387	178.063	151.687	5.890	1.00	32.67	A	C
ATOM	2179	O	SER	A	387	177.162	150.889	5.535	1.00	35.02	A	O
ATOM	2180	OXT	SER	A	387	178.173	152.164	7.055	1.00	35.90	A	O
ATOM	2181	CB	SER	B	7	187.273	195.899	10.921	1.00	30.72	B	C
ATOM	2182	OG	SER	B	7	185.919	195.490	11.062	1.00	28.92	B	O
ATOM	2183	C	SER	B	7	187.728	193.792	12.227	1.00	32.69	B	C
ATOM	2184	O	SER	B	7	187.932	192.918	11.331	1.00	33.35	B	O
ATOM	2185	N	SER	B	7	189.583	195.368	11.576	1.00	34.34	B	N
ATOM	2186	CA	SER	B	7	188.150	195.268	12.001	1.00	32.37	B	C
ATOM	2187	N	TYR	B	8	187.139	193.527	13.402	1.00	28.10	B	N
ATOM	2188	CA	TYR	B	8	186.671	192.188	13.775	1.00	25.10	B	C
ATOM	2189	CB	TYR	B	8	187.465	191.681	14.999	1.00	22.64	B	C
ATOM	2190	CG	TYR	B	8	188.962	191.579	14.731	1.00	22.03	B	C
ATOM	2191	CD1	TYR	B	8	189.806	192.667	14.982	1.00	19.79	B	C
ATOM	2192	CE1	TYR	B	8	191.153	192.623	14.642	1.00	19.33	B	C
ATOM	2193	CD2	TYR	B	8	189.524	190.435	14.128	1.00	18.09	B	C
ATOM	2194	CE2	TYR	B	8	190.881	190.391	13.775	1.00	18.91	B	C
ATOM	2195	CZ	TYR	B	8	191.686	191.488	14.038	1.00	20.94	B	C
ATOM	2196	OH	TYR	B	8	193.020	191.444	13.712	1.00	23.31	B	O
ATOM	2197	C	TYR	B	8	185.151	192.143	14.045	1.00	24.33	B	C
ATOM	2198	O	TYR	B	8	184.677	191.422	14.936	1.00	23.49	B	O
ATOM	2199	N	SER	B	9	184.410	192.931	13.263	1.00	24.49	B	N
ATOM	2200	CA	SER	B	9	182.945	193.017	13.314	1.00	24.46	B	C
ATOM	2201	CB	SER	B	9	182.455	194.444	13.006	1.00	23.56	B	C
ATOM	2202	OG	SER	B	9	182.756	195.336	14.059	1.00	29.98	B	O
ATOM	2203	C	SER	B	9	182.426	192.085	12.229	1.00	22.36	B	C
ATOM	2204	O	SER	B	9	182.469	192.408	11.035	1.00	22.10	B	O
ATOM	2205	N	TYR	B	10	181.926	190.938	12.653	1.00	20.97	B	N
ATOM	2206	CA	TYR	B	10	181.434	189.932	11.728	1.00	21.80	B	C
ATOM	2207	CB	TYR	B	10	182.099	188.582	12.063	1.00	21.23	B	C
ATOM	2208	CG	TYR	B	10	183.618	188.617	12.082	1.00	23.30	B	C
ATOM	2209	CD1	TYR	B	10	184.345	187.694	12.836	1.00	24.95	B	C
ATOM	2210	CE1	TYR	B	10	185.744	187.683	12.816	1.00	25.40	B	C
ATOM	2211	CD2	TYR	B	10	184.331	189.542	11.311	1.00	23.55	B	C
ATOM	2212	CE2	TYR	B	10	185.725	189.541	11.285	1.00	24.34	B	C
ATOM	2213	CZ	TYR	B	10	186.421	188.600	12.036	1.00	26.19	B	C
ATOM	2214	OH	TYR	B	10	187.800	188.526	11.956	1.00	31.92	B	O
ATOM	2215	C	TYR	B	10	179.918	189.807	11.832	1.00	21.84	B	C
ATOM	2216	O	TYR	B	10	179.334	190.098	12.872	1.00	22.91	B	O
ATOM	2217	N	ASP	B	11	179.283	189.372	10.754	1.00	19.80	B	N
ATOM	2218	CA	ASP	B	11	177.842	189.173	10.751	1.00	19.63	B	C
ATOM	2219	CB	ASP	B	11	177.308	189.274	9.310	1.00	21.09	B	C
ATOM	2220	CG	ASP	B	11	175.778	189.141	9.217	1.00	23.91	B	C
ATOM	2221	OD1	ASP	B	11	175.093	188.957	10.256	1.00	24.67	B	O
ATOM	2222	OD2	ASP	B	11	175.264	189.221	8.077	1.00	22.90	B	O
ATOM	2223	C	ASP	B	11	177.653	187.756	11.297	1.00	19.67	B	C
ATOM	2224	O	ASP	B	11	177.383	186.820	10.565	1.00	20.37	B	O
ATOM	2225	N	ALA	B	12	177.844	187.593	12.590	1.00	19.26	B	N
ATOM	2226	CA	ALA	B	12	177.696	186.285	13.174	1.00	19.72	B	C
ATOM	2227	CB	ALA	B	12	178.993	185.498	13.013	1.00	20.60	B	C
ATOM	2228	C	ALA	B	12	177.337	186.502	14.640	1.00	20.60	B	C
ATOM	2229	O	ALA	B	12	177.450	187.632	15.149	1.00	20.41	B	O
ATOM	2230	N	PRO	B	13	176.918	185.448	15.350	1.00	20.13	B	N
ATOM	2231	CD	PRO	B	13	176.769	184.055	14.907	1.00	17.56	B	C
ATOM	2232	CA	PRO	B	13	176.545	185.608	16.761	1.00	16.88	B	C
ATOM	2233	CB	PRO	B	13	175.959	184.246	17.137	1.00	16.25	B	C

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ATOM   2234  CG   PRO B   13      175.670 183.563  15.811  1.00 18.64      B    C
ATOM   2235  C    PRO B   13      177.663 186.014  17.728  1.00 17.09      B    C
ATOM   2236  O    PRO B   13      178.797 185.573  17.590  1.00 17.90      B    O
ATOM   2237  N    SER B   14      177.334 186.839  18.720  1.00 17.14      B    N
ATOM   2238  CA   SER B   14      178.294 187.258  19.739  1.00 20.00      B    C
ATOM   2239  CB   SER B   14      179.094 188.499  19.294  1.00 19.42      B    C
ATOM   2240  OG   SER B   14      178.288 189.384  18.544  1.00 30.47      B    O
ATOM   2241  C    SER B   14      177.587 187.518  21.069  1.00 18.32      B    C
ATOM   2242  O    SER B   14      178.199 187.968  22.056  1.00 14.51      B    O
ATOM   2243  N    ASP B   15      176.297 187.215  21.076  1.00 18.48      B    N
ATOM   2244  CA   ASP B   15      175.445 187.376  22.248  1.00 23.79      B    C
ATOM   2245  CB   ASP B   15      173.991 187.526  21.783  1.00 30.49      B    C
ATOM   2246  CG   ASP B   15      173.676 188.932  21.226  1.00 39.83      B    C
ATOM   2247  OD1  ASP B   15      174.558 189.605  20.616  1.00 44.43      B    O
ATOM   2248  OD2  ASP B   15      172.510 189.378  21.401  1.00 45.45      B    O
ATOM   2249  C    ASP B   15      175.569 186.172  23.199  1.00 21.79      B    C
ATOM   2250  O    ASP B   15      175.594 185.035  22.754  1.00 22.39      B    O
ATOM   2251  N    PHE B   16      175.660 186.432  24.500  1.00 21.47      B    N
ATOM   2252  CA   PHE B   16      175.756 185.373  25.514  1.00 22.21      B    C
ATOM   2253  CB   PHE B   16      175.700 185.993  26.930  1.00 19.46      B    C
ATOM   2254  CG   PHE B   16      175.637 184.978  28.025  1.00 18.34      B    C
ATOM   2255  CD1  PHE B   16      176.789 184.362  28.491  1.00 18.98      B    C
ATOM   2256  CD2  PHE B   16      174.417 184.569  28.528  1.00 15.51      B    C
ATOM   2257  CE1  PHE B   16      176.716 183.339  29.435  1.00 18.59      B    C
ATOM   2258  CE2  PHE B   16      174.340 183.552  29.469  1.00 15.01      B    C
ATOM   2259  CZ   PHE B   16      175.488 182.939  29.921  1.00 15.05      B    C
ATOM   2260  C    PHE B   16      174.542 184.448  25.301  1.00 21.16      B    C
ATOM   2261  O    PHE B   16      173.442 184.938  25.058  1.00 21.78      B    O
ATOM   2262  N    ILE B   17      174.739 183.135  25.370  1.00 19.97      B    N
ATOM   2263  CA   ILE B   17      173.652 182.163  25.182  1.00 20.86      B    C
ATOM   2264  CB   ILE B   17      173.965 181.144  24.009  1.00 21.47      B    C
ATOM   2265  CG2  ILE B   17      172.988 179.964  24.011  1.00 11.76      B    C
ATOM   2266  CG1  ILE B   17      173.957 181.844  22.654  1.00 16.04      B    C
ATOM   2267  CD1  ILE B   17      174.760 181.051  21.631  1.00 18.42      B    C
ATOM   2268  C    ILE B   17      173.478 181.318  26.439  1.00 21.56      B    C
ATOM   2269  O    ILE B   17      174.462 180.965  27.086  1.00 23.11      B    O
ATOM   2270  N    ASN B   18      172.227 181.002  26.778  1.00 24.87      B    N
ATOM   2271  CA   ASN B   18      171.893 180.143  27.928  1.00 26.79      B    C.
ATOM   2272  CB   ASN B   18      170.485 180.437  28.427  1.00 26.34      B    C
ATOM   2273  CG   ASN B   18      170.052 179.482  29.543  1.00 30.28      B    C
ATOM   2274  OD1  ASN B   18      170.753 178.519  29.870  1.00 30.01      B    O
ATOM   2275  ND2  ASN B   18      168.893 179.747  30.125  1.00 28.50      B    N
ATOM   2276  C    ASN B   18      171.911 178.718  27.373  1.00 28.06      B    C
ATOM   2277  O    ASN B   18      170.947 178.305  26.737  1.00 31.09      B    O
ATOM   2278  N    PHE B   19      172.969 177.950  27.616  1.00 30.32      B    N
ATOM   2279  CA   PHE B   19      173.027 176.599  27.050  1.00 32.46      B    C
ATOM   2280  CB   PHE B   19      174.460 176.061  27.076  1.00 27.50      B    C
ATOM   2281  CG   PHE B   19      175.430 176.837  26.214  1.00 22.59      B    C
ATOM   2282  CD1  PHE B   19      176.332 177.737  26.785  1.00 20.42      B    C
ATOM   2283  CD2  PHE B   19      175.426 176.682  24.831  1.00 21.89      B    C
ATOM   2284  CE1  PHE B   19      177.223 178.454  25.989  1.00 19.77      B    C
ATOM   2285  CE2  PHE B   19      176.312 177.398  24.021  1.00 18.13      B    C
ATOM   2286  CZ   PHE B   19      177.206 178.291  24.605  1.00 19.50      B    C
ATOM   2287  C    PHE B   19      172.086 175.529  27.618  1.00 36.90      B    C
ATOM   2288  O    PHE B   19      172.063 174.397  27.124  1.00 41.31      B    O
ATOM   2289  N    SER B   20      171.317 175.844  28.646  1.00 41.32      B    N
ATOM   2290  CA   SER B   20      170.402 174.824  29.142  1.00 46.46      B    C
ATOM   2291  CB   SER B   20      170.317 174.921  30.652  1.00 47.60      B    C
ATOM   2292  OG   SER B   20      170.456 176.275  31.032  1.00 49.62      B    O
ATOM   2293  C    SER B   20      169.029 175.021  28.496  1.00 48.43      B    C
ATOM   2294  O    SER B   20      168.337 174.060  28.170  1.00 50.43      B    O
ATOM   2295  N    SER B   21      168.645 176.275  28.286  1.00 50.08      B    N
ATOM   2296  CA   SER B   21      167.349 176.574  27.676  1.00 50.65      B    C
ATOM   2297  CB   SER B   21      166.742 177.810  28.317  1.00 49.82      B    C
ATOM   2298  OG   SER B   21      167.467 178.945  27.866  1.00 50.01      B    O
ATOM   2299  C    SER B   21      167.581 176.880  26.204  1.00 51.89      B    C
ATOM   2300  O    SER B   21      166.843 176.336  25.325  1.00 51.53      B    O
ATOM   2301  OXT  SER B   21      168.482 177.716  25.953  1.00 53.54      B    O
ATOM   2302  CB   ASN C   30      165.336 177.781  10.155  1.00 41.18      C    C
ATOM   2303  CG   ASN C   30      164.486 178.568   9.178  1.00 46.58      C    C
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ATOM	2304	OD1	ASN	C	30	164.828	179.693	8.808	1.00	49.62	C	O
ATOM	2305	ND2	ASN	C	30	163.363	177.973	8.740	1.00	49.11	C	N
ATOM	2306	C	ASN	C	30	167.301	179.381	10.314	1.00	36.00	C	C
ATOM	2307	O	ASN	C	30	167.202	179.731	9.143	1.00	34.36	C	O
ATOM	2308	N	ASN	C	30	165.267	179.744	11.676	1.00	37.72	C	N
ATOM	2309	CA	ASN	C	30	166.154	178.688	11.078	1.00	38.33	C	C
ATOM	2310	N	ILE	C	31	168.406	179.537	11.026	1.00	32.89	C	N
ATOM	2311	CA	ILE	C	31	169.605	180.229	10.589	1.00	28.57	C	C
ATOM	2312	CB	ILE	C	31	170.635	180.011	11.676	1.00	31.08	C	C
ATOM	2313	CG2	ILE	C	31	171.873	180.840	11.426	1.00	30.71	C	C
ATOM	2314	CG1	ILE	C	31	169.991	180.405	13.012	1.00	34.10	C	C
ATOM	2315	CD1	ILE	C	31	169.738	181.909	13.147	1.00	41.37	C	C
ATOM	2316	C	ILE	C	31	170.254	180.041	9.214	1.00	25.67	C	C
ATOM	2317	O	ILE	C	31	170.816	180.996	8.677	1.00	20.90	C	O
ATOM	2318	N	ASP	C	32	170.188	178.856	8.623	1.00	23.52	C	N
ATOM	2319	CA	ASP	C	32	170.872	178.678	7.351	1.00	24.02	C	C
ATOM	2320	CB	ASP	C	32	171.126	177.197	7.086	1.00	27.28	C	C
ATOM	2321	CG	ASP	C	32	169.858	176.423	6.805	1.00	32.74	C	C
ATOM	2322	OD1	ASP	C	32	168.852	177.009	6.338	1.00	36.15	C	O
ATOM	2323	OD2	ASP	C	32	169.884	175.202	7.039	1.00	33.71	C	O
ATOM	2324	C	ASP	C	32	170.289	179.324	6.104	1.00	23.19	C	C
ATOM	2325	O	ASP	C	32	170.804	179.126	5.001	1.00	22.55	C	O
ATOM	2326	N	SER	C	33	169.223	180.090	6.271	1.00	21.46	C	N
ATOM	2327	CA	SER	C	33	168.608	180.781	5.136	1.00	22.57	C	C
ATOM	2328	CB	SER	C	33	167.205	181.244	5.499	1.00	23.28	C	C
ATOM	2329	OG	SER	C	33	166.326	180.142	5.639	1.00	33.59	C	O
ATOM	2330	C	SER	C	33	169.448	182.002	4.805	1.00	19.49	C	C
ATOM	2331	O	SER	C	33	169.273	182.639	3.770	1.00	20.33	C	O
ATOM	2332	N	TRP	C	34	170.344	182.330	5.728	1.00	18.04	C	N
ATOM	2333	CA	TRP	C	34	171.254	183.466	5.621	1.00	16.02	C	C
ATOM	2334	CB	TRP	C	34	172.234	183.422	6.792	1.00	15.82	C	C
ATOM	2335	CG	TRP	C	34	173.240	184.531	6.836	1.00	15.40	C	C
ATOM	2336	CD2	TRP	C	34	174.599	184.462	6.404	1.00	13.15	C	C
ATOM	2337	CE2	TRP	C	34	175.180	185.735	6.640	1.00	14.42	C	C
ATOM	2338	CE3	TRP	C	34	175.387	183.451	5.843	1.00	10.87	C	C
ATOM	2339	CD1	TRP	C	34	173.052	185.801	7.302	1.00	13.49	C	C
ATOM	2340	NE1	TRP	C	34	174.212	186.530	7.189	1.00	11.42	C	N
ATOM	2341	CZ2	TRP	C	34	176.523	186.024	6.330	1.00	14.91	C	C
ATOM	2342	CZ3	TRP	C	34	176.727	183.738	5.538	1.00	12.26	C	C
ATOM	2343	CH2	TRP	C	34	177.278	185.016	5.785	1.00	10.61	C	C
ATOM	2344	C	TRP	C	34	172.022	183.499	4.299	1.00	15.62	C	C
ATOM	2345	O	TRP	C	34	172.251	184.579	3.735	1.00	16.88	C	O
ATOM	2346	N	PHE	C	35	172.435	182.324	3.819	1.00	13.45	C	N
ATOM	2347	CA	PHE	C	35	173.191	182.222	2.567	1.00	12.33	C	C
ATOM	2348	CB	PHE	C	35	173.739	180.801	2.344	1.00	8.78	C	C
ATOM	2349	CG	PHE	C	35	174.597	180.304	3.456	1.00	9.30	C	C
ATOM	2350	CD1	PHE	C	35	174.042	179.566	4.495	1.00	9.43	C	C
ATOM	2351	CD2	PHE	C	35	175.960	180.610	3.500	1.00	9.38	C	C
ATOM	2352	CE1	PHE	C	35	174.822	179.141	5.565	1.00	6.69	C	C
ATOM	2353	CE2	PHE	C	35	176.749	180.190	4.569	1.00	8.62	C	C
ATOM	2354	CZ	PHE	C	35	176.174	179.455	5.602	1.00	10.55	C	C
ATOM	2355	C	PHE	C	35	172.367	182.623	1.351	1.00	13.51	C	C
ATOM	2356	O	PHE	C	35	172.779	183.502	0.597	1.00	13.63	C	O
ATOM	2357	N	ALA	C	36	171.207	181.997	1.153	1.00	14.52	C	N
ATOM	2358	CA	ALA	C	36	170.392	182.349	-0.008	1.00	18.05	C	C
ATOM	2359	CB	ALA	C	36	169.246	181.349	-0.209	1.00	13.28	C	C
ATOM	2360	C	ALA	C	36	169.844	183.775	0.103	1.00	18.08	C	C
ATOM	2361	O	ALA	C	36	169.797	184.500	-0.899	1.00	20.25	C	O
ATOM	2362	N	GLU	C	37	169.458	184.192	1.307	1.00	18.61	C	N
ATOM	2363	CA	GLU	C	37	168.905	185.536	1.505	1.00	21.91	C	C
ATOM	2364	CB	GLU	C	37	168.391	185.686	2.933	1.00	22.41	C	C
ATOM	2365	CG	GLU	C	37	167.103	184.901	3.240	1.00	24.75	C	C
ATOM	2366	CD	GLU	C	37	166.619	185.133	4.681	1.00	30.55	C	C
ATOM	2367	OE1	GLU	C	37	167.473	185.511	5.529	1.00	31.00	C	O
ATOM	2368	OE2	GLU	C	37	165.414	184.932	4.976	1.00	30.11	C	O
ATOM	2369	C	GLU	C	37	169.913	186.649	1.194	1.00	22.74	C	C
ATOM	2370	O	GLU	C	37	169.561	187.754	0.791	1.00	22.40	C	O
ATOM	2371	N	LYS	C	38	171.181	186.332	1.375	1.00	25.80	C	N
ATOM	2372	CA	LYS	C	38	172.269	187.252	1.114	1.00	24.79	C	C
ATOM	2373	CB	LYS	C	38	173.438	186.831	1.982	1.00	27.15	C	C

ATOM	2374	CG	LYS C	38	174.708	187.488	1.649	1.00	30.16	C	C
ATOM	2375	CD	LYS C	38	175.776	187.057	2.622	1.00	31.96	C	C
ATOM	2376	CE	LYS C	38	177.007	187.927	2.391	1.00	35.28	C	C
ATOM	2377	NZ	LYS C	38	178.028	187.735	3.456	1.00	40.31	C	N
ATOM	2378	C	LYS C	38	172.625	187.194	-0.373	1.00	25.05	C	C
ATOM	2379	O	LYS C	38	173.062	188.177	-0.969	1.00	23.54	C	O
ATOM	2380	N	ALA C	39	172.418	186.032	-0.975	1.00	23.76	C	N
ATOM	2381	CA	ALA C	39	172.687	185.849	-2.400	1.00	23.35	C	C
ATOM	2382	CB	ALA C	39	172.656	184.343	-2.762	1.00	20.98	C	C
ATOM	2383	C	ALA C	39	171.642	186.576	-3.245	1.00	24.77	C	C
ATOM	2384	O	ALA C	39	171.950	187.112	-4.318	1.00	24.28	C	O
ATOM	2385	N	ASN C	40	170.403	186.592	-2.754	1.00	23.38	C	N
ATOM	2386	CA	ASN C	40	169.306	187.210	-3.480	1.00	23.68	C	C
ATOM	2387	CB	ASN C	40	167.993	186.526	-3.137	1.00	18.03	C	C
ATOM	2388	CG	ASN C	40	168.024	185.035	-3.395	1.00	17.89	C	C
ATOM	2389	OD1	ASN C	40	168.646	184.553	-4.351	1.00	18.06	C	O
ATOM	2390	ND2	ASN C	40	167.325	184.287	-2.545	1.00	16.76	C	N
ATOM	2391	C	ASN C	40	169.122	188.701	-3.279	1.00	25.17	C	C
ATOM	2392	O	ASN C	40	168.413	189.332	-4.052	1.00	27.11	C	O
ATOM	2393	N	LEU C	41	169.731	189.268	-2.246	1.00	26.95	C	N
ATOM	2394	CA	LEU C	41	169.600	190.709	-1.965	1.00	29.31	C	C
ATOM	2395	CB	LEU C	41	170.380	191.047	-0.705	1.00	29.88	C	C
ATOM	2396	CG	LEU C	41	169.816	192.308	-0.057	1.00	30.53	C	C
ATOM	2397	CD1	LEU C	41	168.319	192.148	0.221	1.00	30.41	C	C
ATOM	2398	CD2	LEU C	41	170.580	192.558	1.209	1.00	29.64	C	C
ATOM	2399	C	LEU C	41	170.091	191.589	-3.120	1.00	29.84	C	C
ATOM	2400	O	LEU C	41	171.051	191.230	-3.787	1.00	30.13	C	O
ATOM	2401	N	GLU C	42	169.487	192.763	-3.312	1.00	32.17	C	N
ATOM	2402	CA	GLU C	42	169.851	193.627	-4.439	1.00	35.33	C	C
ATOM	2403	CB	GLU C	42	168.583	193.847	-5.286	1.00	33.50	C	C
ATOM	2404	CG	GLU C	42	167.819	192.560	-5.616	1.00	32.30	C	C
ATOM	2405	CD	GLU C	42	166.473	192.784	-6.334	1.00	34.80	C	C
ATOM	2406	OE1	GLU C	42	165.892	193.892	-6.241	1.00	34.22	C	O
ATOM	2407	OE2	GLU C	42	165.980	191.829	-6.987	1.00	33.99	C	O
ATOM	2408	C	GLU C	42	170.537	194.977	-4.190	1.00	37.36	C	C
ATOM	2409	O	GLU C	42	170.487	195.539	-3.109	1.00	38.22	C	O
ATOM	2410	N	ASN C	43	171.220	195.457	-5.221	1.00	43.15	C	N
ATOM	2411	CA	ASN C	43	171.863	196.790	-5.266	1.00	48.74	C	C
ATOM	2412	CB	ASN C	43	172.611	197.184	-3.967	1.00	48.84	C	C
ATOM	2413	CG	ASN C	43	173.769	196.255	-3.632	1.00	50.97	C	C
ATOM	2414	OD1	ASN C	43	173.749	195.054	-3.970	1.00	50.34	C	O
ATOM	2415	ND2	ASN C	43	174.793	196.804	-2.939	1.00	51.10	C	N
ATOM	2416	C	ASN C	43	172.809	196.704	-6.455	1.00	52.67	C	C
ATOM	2417	O	ASN C	43	172.493	197.379	-7.493	1.00	54.34	C	O
ATOM	2418	OXT	ASN C	43	173.808	195.931	-6.344	1.00	55.98	C	O
ATOM	2419	PB	ADP S	531	193.788	175.824	12.432	1.00	20.87	S	P
ATOM	2420	O1B	ADP S	531	193.884	176.352	13.792	1.00	32.28	S	O
ATOM	2421	O2B	ADP S	531	193.566	176.837	11.394	1.00	26.12	S	O
ATOM	2422	O3B	ADP S	531	194.979	174.908	12.132	1.00	31.89	S	O
ATOM	2423	PA	ADP S	531	191.748	174.063	13.545	1.00	18.35	S	P
ATOM	2424	O1A	ADP S	531	190.611	174.901	14.032	1.00	26.99	S	O
ATOM	2425	O2A	ADP S	531	191.357	172.755	12.954	1.00	26.80	S	O
ATOM	2426	O3A	ADP S	531	192.532	174.874	12.450	1.00	28.14	S	O
ATOM	2427	O5*	ADP S	531	192.642	173.906	14.839	1.00	22.21	S	O
ATOM	2428	C5*	ADP S	531	193.768	172.965	14.869	1.00	20.71	S	C
ATOM	2429	C4*	ADP S	531	193.594	171.623	15.640	1.00	17.30	S	C
ATOM	2430	O4*	ADP S	531	192.923	171.842	16.897	1.00	18.08	S	O
ATOM	2431	C3*	ADP S	531	192.751	170.494	14.997	1.00	17.80	S	C
ATOM	2432	O3*	ADP S	531	193.561	169.824	14.038	1.00	18.78	S	O
ATOM	2433	C2*	ADP S	531	192.369	169.659	16.218	1.00	19.78	S	C
ATOM	2434	O2*	ADP S	531	193.423	168.749	16.615	1.00	19.10	S	O
ATOM	2435	C1*	ADP S	531	192.152	170.704	17.312	1.00	18.01	S	C
ATOM	2436	N9	ADP S	531	190.711	171.169	17.445	1.00	18.12	S	N
ATOM	2437	C8	ADP S	531	190.169	172.237	16.808	1.00	20.72	S	C
ATOM	2438	N7	ADP S	531	188.877	172.431	17.108	1.00	19.94	S	N
ATOM	2439	C5	ADP S	531	188.596	171.408	17.961	1.00	15.87	S	C
ATOM	2440	C6	ADP S	531	187.377	171.071	18.652	1.00	14.49	S	C
ATOM	2441	N6	ADP S	531	186.260	171.696	18.563	1.00	9.66	S	N
ATOM	2442	N1	ADP S	531	187.474	169.935	19.454	1.00	13.01	S	N
ATOM	2443	C2	ADP S	531	188.642	169.198	19.595	1.00	14.56	S	C

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ATOM    2444  N3  ADP S 531      189.773 169.512  18.982  1.00 17.25      S    N
ATOM    2445  C4  ADP S 531      189.716 170.610  18.162  1.00 16.09      S    C
ATOM    2446  MG  MG  X   1      192.801 173.013  10.897  1.00 18.98      X    MG+2
ATOM    2447  MG  MG  X   2      192.933 178.461  10.215  1.00 21.17      X    MG+2
ATOM    2448  MG  MG  X   3      174.135 172.090  -6.081  1.00 37.43      X    MG+2
ATOM    2449  S   SO4 Y   1      175.520 167.060  -4.810  1.00 40.27      Y    S
ATOM    2450  O1  SO4 Y   1      175.005 168.134  -3.755  1.00 40.61      Y    O
ATOM    2451  O2  SO4 Y   1      176.918 167.395  -5.118  1.00 40.85      Y    O
ATOM    2452  O3  SO4 Y   1      175.333 165.874  -4.319  1.00 45.29      Y    O
ATOM    2453  O4  SO4 Y   1      174.705 167.387  -6.003  1.00 46.53      Y    O
ATOM    2454  S   SO4 Y   2      196.317 160.442  22.149  1.00 52.91      Y    S
ATOM    2455  O1  SO4 Y   2      194.902 160.702  22.904  1.00 53.25      Y    O
ATOM    2456  O2  SO4 Y   2      197.156 161.615  22.484  1.00 52.23      Y    O
ATOM    2457  O3  SO4 Y   2      196.808 159.261  22.506  1.00 50.45      Y    O
ATOM    2458  O4  SO4 Y   2      195.932 160.567  20.717  1.00 53.17      Y    O
ATOM    2459  S   SO4 Y   3      184.237 187.281  -0.473  1.00 69.64      Y    S
ATOM    2460  O1  SO4 Y   3      182.905 188.209  -0.613  1.00 70.60      Y    O
ATOM    2461  O2  SO4 Y   3      185.274 188.143   0.172  1.00 70.08      Y    O
ATOM    2462  O3  SO4 Y   3      183.925 186.181   0.170  1.00 69.68      Y    O
ATOM    2463  O4  SO4 Y   3      184.641 187.119  -1.915  1.00 70.92      Y    O
ATOM    2464  OH2 WAT W   1      179.030 185.642  -6.293  1.00  8.84      W    O
ATOM    2465  OH2 WAT W   2      194.313 179.202  -8.444  1.00 16.79      W    O
ATOM    2466  OH2 WAT W   3      192.921 180.168   8.084  1.00 30.46      W    O
ATOM    2467  OH2 WAT W   4      187.994 175.656   4.804  1.00 16.00      W    O
ATOM    2468  OH2 WAT W   5      178.455 169.305  -5.499  1.00 13.87      W    O
ATOM    2469  OH2 WAT W   6      197.111 180.066  22.244  1.00 15.19      W    O
ATOM    2470  OH2 WAT W   7      180.414 171.384  22.814  1.00  8.30      W    O
ATOM    2471  OH2 WAT W   8      188.179 184.543  -6.390  1.00 10.24      W    O
ATOM    2472  OH2 WAT W   9      188.183 181.649   3.509  1.00 23.15      W    O
ATOM    2473  OH2 WAT W  10      185.065 157.114  14.496  1.00 16.39      W    O
ATOM    2474  OH2 WAT W  11      192.854 158.543  18.441  1.00 20.42      W    O
ATOM    2475  OH2 WAT W  12      194.144 171.703  11.618  1.00 13.61      W    O
ATOM    2476  OH2 WAT W  13      194.572 183.197  -8.077  1.00 36.64      W    O
ATOM    2477  OH2 WAT W  14      198.254 147.344  -7.377  1.00 23.99      W    O
ATOM    2478  OH2 WAT W  15      174.141 170.073  -2.678  1.00 18.36      W    O
ATOM    2479  OH2 WAT W  16      197.136 162.247   7.860  1.00 20.24      W    O
ATOM    2480  OH2 WAT W  17      178.742 175.122  -2.821  1.00 12.41      W    O
ATOM    2481  OH2 WAT W  18      200.365 168.406   2.165  1.00  9.98      W    O
ATOM    2482  OH2 WAT W  19      168.522 176.594   9.704  1.00 27.47      W    O
ATOM    2483  OH2 WAT W  20      193.215 179.995  11.973  1.00 17.15      W    O
ATOM    2484  OH2 WAT W  21      188.165 173.468  14.493  1.00 18.83      W    O
ATOM    2485  OH2 WAT W  22      178.977 189.493   5.006  1.00 25.99      W    O
ATOM    2486  OH2 WAT W  23      194.904 178.835  14.332  1.00  9.84      W    O
ATOM    2487  OH2 WAT W  24      172.594 187.824  25.336  1.00 22.88      W    O
ATOM    2488  OH2 WAT W  25      186.612 173.366  -9.877  1.00 19.22      W    O
ATOM    2489  OH2 WAT W  26      176.840 183.702  20.193  1.00 22.57      W    O
ATOM    2490  OH2 WAT W  27      176.801 160.388  11.646  1.00 15.90      W    O
ATOM    2491  OH2 WAT W  28      178.487 174.788  11.702  1.00 18.10      W    O
ATOM    2492  OH2 WAT W  29      181.155 186.952  32.619  1.00 32.00      W    O
ATOM    2493  OH2 WAT W  30      209.304 163.564 -16.281  1.00 27.44      W    O
ATOM    2494  OH2 WAT W  31      203.827 165.930  -0.838  1.00 16.37      W    O
ATOM    2495  OH2 WAT W  32      183.937 190.638  21.333  1.00 17.02      W    O
ATOM    2496  OH2 WAT W  33      190.362 181.451   8.363  1.00 23.84      W    O
ATOM    2497  OH2 WAT W  34      201.524 183.136  11.412  1.00 27.78      W    O
ATOM    2498  OH2 WAT W  35      176.401 172.283  12.285  1.00 22.44      W    O
ATOM    2499  OH2 WAT W  36      191.486 178.801  -8.556  1.00 14.47      W    O
ATOM    2500  OH2 WAT W  37      193.706 178.975  16.555  1.00 28.73      W    O
ATOM    2501  OH2 WAT W  38      200.711 191.015   5.492  1.00 22.39      W    O
ATOM    2502  OH2 WAT W  39      198.698 163.980  -2.087  1.00 16.88      W    O
ATOM    2503  OH2 WAT W  40      186.096 174.714  13.402  1.00 14.25      W    O
ATOM    2504  OH2 WAT W  41      189.561 189.228  27.405  1.00 21.42      W    O
ATOM    2505  OH2 WAT W  42      185.742 175.020 -12.633  1.00 32.61      W    O
ATOM    2506  OH2 WAT W  43      189.284 166.218  21.436  1.00 18.57      W    O
ATOM    2507  OH2 WAT W  44      189.806 150.396  10.582  1.00 17.00      W    O
ATOM    2508  OH2 WAT W  45      182.606 183.843   1.498  1.00 23.82      W    O
ATOM    2509  OH2 WAT W  46      203.088 159.272  -4.093  1.00 20.75      W    O
ATOM    2510  OH2 WAT W  47      197.775 190.097  18.980  1.00 22.00      W    O
ATOM    2511  OH2 WAT W  48      193.113 164.352  18.292  1.00 18.52      W    O
ATOM    2512  OH2 WAT W  49      188.303 192.170   8.139  1.00 29.33      W    O
ATOM    2513  OH2 WAT W  50      178.988 188.073  29.292  1.00 22.03      W    O
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ATOM   2514   OH2 WAT W  51     179.041 176.835  -4.879   1.00 28.93        W    O
ATOM   2515   OH2 WAT W  52     177.094 169.275  14.745   1.00 17.83        W    O
ATOM   2516   OH2 WAT W  53     173.359 158.848   5.717   1.00 26.69        W    O
ATOM   2517   OH2 WAT W  54     184.713 145.517  -1.099   1.00 25.66        W    O
ATOM   2518   OH2 WAT W  55     197.989 162.673  24.709   1.00 31.35        W    O
ATOM   2519   OH2 WAT W  56     190.279 149.132  -0.366   1.00 23.37        W    O
ATOM   2520   OH2 WAT W  57     175.195 156.308   1.515   1.00 25.31        W    O
ATOM   2521   OH2 WAT W  58     189.320 149.244  12.871   1.00 39.74        W    O
ATOM   2522   OH2 WAT W  59     191.345 160.562  17.366   1.00 19.61        W    O
ATOM   2523   OH2 WAT W  60     209.300 189.438  10.191   1.00 32.59        W    O
ATOM   2524   OH2 WAT W  61     176.961 195.154  23.343   1.00 26.84        W    O
ATOM   2525   OH2 WAT W  62     194.908 178.479  10.038   1.00 12.42        W    O
ATOM   2526   OH2 WAT W  63     192.932 176.681   8.727   1.00 17.49        W    O
ATOM   2527   OH2 WAT W  64     191.151 178.650  10.287   1.00 25.58        W    O
ATOM   2528   OH2 WAT W  65     182.000 183.023 -13.348   1.00 15.88        W    O
ATOM   2529   OH2 WAT W  66     174.844 179.377  29.234   1.00 21.85        W    O
ATOM   2530   OH2 WAT W  67     192.666 150.025   4.037   1.00 24.70        W    O
ATOM   2531   OH2 WAT W  68     191.227 167.117  19.848   1.00 27.52        W    O
ATOM   2532   OH2 WAT W  69     195.798 166.787  -4.678   1.00 16.05        W    O
ATOM   2533   OH2 WAT W  70     188.683 164.953  24.250   1.00 16.65        W    O
ATOM   2534   OH2 WAT W  71     202.921 187.953   5.807   1.00 25.48        W    O
ATOM   2535   OH2 WAT W  72     173.656 180.838  -1.296   1.00 19.16        W    O
ATOM   2536   OH2 WAT W  73     178.223 170.722  21.753   1.00 28.96        W    O
ATOM   2537   OH2 WAT W  74     200.047 185.273   4.691   1.00 36.63        W    O
ATOM   2538   OH2 WAT W  75     199.421 160.492  21.694   1.00 54.41        W    O
ATOM   2539   OH2 WAT W  76     174.343 151.575  -4.090   1.00 24.22        W    O
ATOM   2540   OH2 WAT W  77     199.217 156.232   8.084   1.00 24.50        W    O
ATOM   2541   OH2 WAT W  78     186.693 195.451  15.184   1.00 30.28        W    O
ATOM   2542   OH2 WAT W  79     204.072 167.051 -16.474   1.00 30.81        W    O
ATOM   2543   OH2 WAT W  80     189.729 170.883  13.071   1.00 24.00        W    O
ATOM   2544   OH2 WAT W  81     193.562 167.033  18.576   1.00 34.40        W    O
ATOM   2545   OH2 WAT W  82     188.055 177.150 -16.174   1.00 39.31        W    O
ATOM   2546   OH2 WAT W  83     209.167 161.801  -3.764   1.00 29.76        W    O
ATOM   2547   OH2 WAT W  84     189.954 187.203  -3.104   1.00 30.21        W    O
ATOM   2548   OH2 WAT W  85     166.356 175.210   9.226   1.00 35.64        W    O
ATOM   2549   OH2 WAT W  86     209.038 162.643 -13.951   1.00 29.71        W    O
ATOM   2550   OH2 WAT W  87     179.913 164.861  20.417   1.00 23.03        W    O
ATOM   2551   OH2 WAT W  88     176.985 177.272  13.711   1.00 28.39        W    O
ATOM   2552   OH2 WAT W  89     197.775 160.663  10.355   1.00 30.90        W    O
ATOM   2553   OH2 WAT W  90     180.418 156.423 -15.983   1.00 38.69        W    O
ATOM   2554   OH2 WAT W  91     197.603 165.048   7.104   1.00 39.85        W    O
ATOM   2555   OH2 WAT W  92     201.038 146.684  -3.627   1.00 28.72        W    O
ATOM   2556   OH2 WAT W  93     191.798 173.307  -1.526   1.00 20.55        W    O
ATOM   2557   OH2 WAT W  94     195.433 186.638   2.426   1.00 32.36        W    O
ATOM   2558   OH2 WAT W  95     185.689 149.073  10.194   1.00 32.44        W    O
ATOM   2559   OH2 WAT W  96     181.725 186.361   4.468   1.00 44.13        W    O
ATOM   2560   OH2 WAT W  97     190.638 181.376   1.418   1.00 40.50        W    O
ATOM   2561   OH2 WAT W  98     203.221 164.983   2.765   1.00 30.78        W    O
ATOM   2562   OH2 WAT W  99     191.430 148.459   1.931   1.00 29.87        W    O
ATOM   2563   OH2 WAT W 100     172.186 178.856  -0.480   1.00 35.57        W    O
ATOM   2564   OH2 WAT W 101     195.541 178.234   1.979   1.00 25.17        W    O
ATOM   2565   OH2 WAT W 102     170.598 187.029  21.078   1.00 24.60        W    O
ATOM   2566   OH2 WAT W 103     175.607 172.274  -8.036   1.00 36.47        W    O
ATOM   2567   OH2 WAT W 104     168.429 188.864  -6.367   1.00 22.94        W    O
ATOM   2568   OH2 WAT W 105     186.340 190.812  24.666   1.00 32.99        W    O
ATOM   2569   OH2 WAT W 106     201.816 192.555   4.023   1.00 28.31        W    O
ATOM   2570   OH2 WAT W 107     202.504 159.814  -7.441   1.00 22.58        W    O
ATOM   2571   OH2 WAT W 108     174.542 185.298 -11.131   1.00 31.96        W    O
ATOM   2572   OH2 WAT W 109     175.457 179.403  15.662   1.00 39.35        W    O
ATOM   2573   OH2 WAT W 110     196.564 193.700   7.818   1.00 32.38        W    O
ATOM   2574   OH2 WAT W 111     173.232 181.808  -8.349   1.00 19.06        W    O
ATOM   2575   OH2 WAT W 112     182.827 187.517  -4.364   1.00 45.61        W    O
ATOM   2576   OH2 WAT W 113     189.838 194.231   7.217   1.00 42.16        W    O
ATOM   2577   OH2 WAT W 114     191.170 159.628 -12.340   1.00 35.35        W    O
ATOM   2578   OH2 WAT W 115     191.207 184.866  -0.535   1.00 34.38        W    O
ATOM   2579   OH2 WAT W 116     183.572 197.288  15.706   1.00 39.58        W    O
ATOM   2580   OH2 WAT W 117     199.841 150.695  13.176   1.00 35.40        W    O
ATOM   2581   OH2 WAT W 118     174.316 180.622  18.227   1.00 29.36        W    O
ATOM   2582   OH2 WAT W 119     174.539 169.945  15.478   1.00 36.75        W    O
ATOM   2583   OH2 WAT W 120     186.965 189.198  27.316   1.00 33.73        W    O
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ATOM	2584	OH2	WAT	W	121	185.505	146.137	-4.208	1.00	30.91	W	O
ATOM	2585	OH2	WAT	W	122	168.783	176.131	0.277	1.00	37.59	W	O
ATOM	2586	OH2	WAT	W	123	179.830	187.974	34.894	1.00	39.81	W	O
ATOM	2587	OH2	WAT	W	124	194.391	191.022	26.003	1.00	35.26	W	O
ATOM	2588	OH2	WAT	W	125	175.707	190.116	18.448	1.00	37.47	W	O
ATOM	2589	OH2	WAT	W	126	172.799	187.052	31.328	1.00	38.58	W	O
ATOM	2590	OH2	WAT	W	127	173.867	181.212	14.618	1.00	28.93	W	O
ATOM	2591	OH2	WAT	W	128	169.850	183.554	9.734	1.00	31.19	W	O
ATOM	2592	OH2	WAT	W	129	201.846	186.034	10.890	1.00	39.65	W	O
ATOM	2593	OH2	WAT	W	130	192.261	183.101	8.973	1.00	35.20	W	O
ATOM	2594	OH2	WAT	W	131	195.036	155.601	22.286	1.00	43.08	W	O
ATOM	2595	OH2	WAT	W	132	188.136	149.463	-10.689	1.00	31.69	W	O
ATOM	2596	OH2	WAT	W	133	193.611	166.439	22.911	1.00	37.73	W	O
ATOM	2597	OH2	WAT	W	134	169.159	198.181	-6.371	1.00	34.05	W	O
ATOM	2598	OH2	WAT	W	135	173.141	166.101	3.246	1.00	37.73	W	O
ATOM	2599	OH2	WAT	W	136	196.411	181.887	24.452	1.00	31.18	W	O
ATOM	2600	OH2	WAT	W	137	166.875	190.046	-8.389	1.00	35.44	W	O
ATOM	2601	OH2	WAT	W	138	168.310	173.985	5.026	1.00	36.83	W	O
ATOM	2602	OH2	WAT	W	139	191.553	162.337	-15.173	1.00	30.34	W	O
ATOM	2603	OH2	WAT	W	140	196.789	179.956	0.077	1.00	34.96	W	O
ATOM	2604	OH2	WAT	W	141	204.362	177.082	-3.998	1.00	42.74	W	O
ATOM	2605	OH2	WAT	W	142	178.237	157.118	15.427	1.00	37.51	W	O
ATOM	2606	OH2	WAT	W	143	180.703	166.918	18.919	1.00	22.25	W	O
ATOM	2607	OH2	WAT	W	144	190.076	196.775	13.865	1.00	38.81	W	O